CUT, SAW, DRILL, TAMP, HAMMER, DRIVE, DIG, PUMP, POUND, GRIND,

YOUR WAY THROUGH THE DAY.

HYDRAULIC TOOLS & EQUIPMENT

CATEGORY: HYDRAULIC POWER TOOLS

YEAR: 13-14

FORMAT: PRODUCT CATALOG

STANLEY® Hydraulic Tools

HYDRAULIC TOOLS

GREAT BRAND, GREAT TOOLS

Stanley Hydraulic Tools has a proud tradition of being a global leader in the development of a wide range of innovative hydraulic products used in a variety of industries and applications throughout the world. As a proud member of the Stanley Black & Decker, a 165 year old company committed to the manufacture and distribution of quality tools for the professional, industrial, and consumer, we at Stanley Hydraulic Tools are dedicated to providing our customers with innovative customer-driven product designs, world class quality, unmatched product support, and superior value.

GLOBAL REPRESENTATION

Stanley Hydraulic Tools produces an extensive line of products for use in construction, demolition, scrap processing, recycling, utilities, municipalities, railroads, industry, landscaping, underwater, construction, and specialty trades. Stanley Hydraulic Tools has sales offices and distributors throughout North America, Central America, South America, Europe, Asia, Australia, and the Middle East.

OUR GOAL

Stanley Hydraulic Tools is committed to exceeding our customers' expectations through continuous innovation, excellence, quality, value and service.

All Stanley tools, accessories, parts and allied equipment are subject to design improvements, specification and price changes at any time without notice and with no obligation to units already sold. Weights, dimensions and operating specifications listed herein are subject to change without notice. Where specifications are critical to your application, please consult the factory.

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POWERFUL TOOLS FOR POWERFUL JOBS

Professionals turn to hydraulic tools when they need to get a job done. Nothing matches the performance of hydraulic tools to cut through rock & concrete, drive posts or spikes, or pump a flooded culvert. Because their energy is derived from compressed oil, hydraulic tools can pack a big punch in a little package. Their inherent efficiency means they're friendlier to the environment than comparable air or gas tools. And because they're self-lubricating, they last several times longer.

Today we offer dozens of tools that can operate dependably off a single power source and professionals around the world are turning to the power of Stanley Hydraulic Tools for their most powerful jobs.

ADVANTAGES OF HYDRAULIC TOOLS

- Durability & Maintenance - Hydraulic tools are designed to last with minimal maintenance requirements. Because internal components are bathed in hydraulic oil, it is not uncommon for them to last 15 years or more
- Low Noise - Hydraulic tools are significantly quieter than comparable gas-powered and pneumatic alternatives
- Increased Power & Productivity - Since compressed oil transfers far more energy than compressed air, nothing packs as much pound-for-pound punch as hydraulic. That allows us to deliver a smaller, lighter tool design that can deliver more power than even the biggest gas or pneumatic alternatives
- Cold Conditions - Hydraulic tools can be operated in sub-zero temperatures without freezing up
- Wet Conditions - Wet weather does not affect hydraulic tools. In fact, many models are available for use underwater
- Enclosed Spaces - Hydraulic tools don't produce exhaust and their power sources can be stationed remotely. Not so with gas-powered tools which often discharge engine exhaust directly onto the operator or with pneumatic tools which can atomize small droplets of lubricating oil into the surrounding atmosphere
- Cost-Effective, Environmentally Friendly Operation - Hydraulic tools are inherently more efficient, meaning they require less energy to perform the same work as alternative tools, saving time and money. Hydraulic tool circuits are designed to keep oil in and contaminants out and our tools can be used with a variety of biodegradable environmentally safe hydraulic oils, so they can be operated with minimal impact to their surrounding environment

HYDRAULICS DELIVER A REAL BREAKTHROUGH

Nothing equals the impact force of hydraulic-powered breakers. With the best power-to-weight ratio, higher blow energy, and a lower noise level than pneumatic breakers, our hydraulic percussion tools are simply the best choice. Our 70-lb. class breakers, for instance, deliver roughly the same impact energy as most 90-lb. pneumatic breakers. Internal components are continually bathed in hydraulic oil, providing long-lasting performance with minimal maintenance requirements. And because the hydraulic system is totally enclosed, there's no tool exhaust or oil atomization often found with gas-powered or pneumatic alternatives.

Compared to other options, hydraulic breakers offer:

- Higher impact than comparably sized alternative platforms
- No tool exhaust
- Quieter operation than pneumatic tools allows for use in sensitive areas
- Hydraulic oil provides continuous lubrication of internal parts for longer service life
- Modular, re-buildable design platform improves serviceability
- Handles system back pressures up to 250 psi / 17 bar
- Feathering ON/OFF valve to control speed and make initial tool placement easy
- Trouble-free diaphragm accumulator for added blow energy

Our hydraulic breakers are used around the world in utility construction, street maintenance, repair of water and gas mains, and general contracting jobs.

A general rule of thumb when sizing the appropriate breaker for your application is to use 10 pounds for each inch of material. A 40-pound breaker, for instance, is a good fit for 4-inch concrete. A 90-lb breaker would be used to break 9-inch concrete.

LIGHT TO MEDIUM DUTY BREAKERS

MODEL BR45 - 40# PLUS CLASS

40 LB 2-6" CONCRETE

BR45

The BR45 is light to medium duty breakers for work in the 35 to 55 pound class around the globe.

SPECIFICATIONS

Application: Light concrete or asphalt breaking or scoring, small rock breaking, rod driving, tamping.
Tool Bit Size: Varies. See page 5.
Hyd. Flow: 4-6 gpm / 15-24 lpm, 5.5 gpm / 20 lpm or 7-9 gpm / 26-34 lpm. See page 5.
Weight: 37 lbs / 17 kg to 58 lbs / 26 kg
Length: 22.5 in. / 57 cm to 30 in. / 76 cm
Width: 14 in. / 36 cm to 18 in. / 45 cm
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Convenient, maneuverable size makes this class a favorite for light to medium sized jobs
- Choose from North American or European models
- BR45550 model designed for operation at 4-6 gpm / 15-24 lpm range
- T-type or Anti-vibration handle (see order information)
- EZ-Ride™ or standard foot (see order information)
- Hose whips and flush-face quick disconnect couplers

50 LB 2-6" CONCRETE

The BR50 is a medium duty breaker for work in the 50 pound class and above.

MEDIUM DUTY BREAKERS

INTERNATIONAL 50# CLASS

SPECIFICATIONS

Application: Concrete or asphalt breaking or scoring, small rock breaking, rod driving.
Tool Bit Size: 1-1/8 x 6 in. or 1-1/4 x 6 in.
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 59 lbs / 27 kg T-Handle, 61 lbs / 27.6 kg with Anti Vibe Handle
Length: 28 in. / 71 cm with T-Handle, 29 in. / 73 cm with Anti Vibe Handle
Width: 14.25 in. / 36 cm with T-Handle, 17.5 in. / 45 cm with Anti Vibe Handle
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- T-type or Anti-Vibration Handle (see order information)
- Strong tie rod design for durability
- Hose whips and flush-face quick disconnect couplers

BR50

MEDIUM DUTY BREAKERS

MODEL BR67 - 70# CLASS

70 LB 8" CONCRETE

BR67

The BR67 is a medium to heavy-duty breaker for work in the 70 pound class and above. It is highly productive in construction, street maintenance, repair of water and gas mains, and general contracting jobs.

SPECIFICATIONS

Application: Concrete or asphalt breaking or scoring; small rock breaking; rod, anchor, & stake driving.
Tool Bit Size: 1-1/8 x 6 in. or 1-1/4 x 6 in.
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 72 lbs / 33 kg-BR67 with T-Handle
Length: 27 in. / 68 cm-BR67 with T-Handle
Width: 16 in. / 41 cm-BR67 with T-Handle
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Our original breaker design
- Delivers excellent overall performance
- Provides good balance of power to weight
- T-type or Anti-Vibration handle
- EZ-Ride™ or standard foot
- Strong tie rod design for durability
- Hose whips and flush-face quick disconnect couplers

HEAVY DUTY BREAKERS

MODEL BR87 - 90# PLUS CLASS

90 LB 8+" CONCRETE

The BR87 is a heavy-duty breakers for work in the 90 pound class and heavier. With a longer piston stroke, our 90# class breakers are our hardest hitting handheld breakers.

SPECIFICATIONS

Application: Concrete or asphalt breaking or scoring, small rock breaking, rod, anchor, & stake driving.
Tool Bit Size: 1-1/8 x 6 in. or 1-1/4 x 6 in. (see ordering info)
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 84 lbs / 3 kg
Length: 29 in. / 73.5 cm
Width: 16 in. / 41 cm
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Our hardest hitting breaker class, designed for the biggest breaking jobs
- Longer stroke delivers greater impact force
- T-type handle
- EZ-Ride™ or standard foot
- Strong tie rod design for durability
- Hose whips and flush-face quick disconnect couplers

BR87

BR87 Label

BR67

BREAKERS (NORTH AMERICA)

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
BR45	BR45110	45 lbs / 20 kg	25 in. / 65 cm	14 in. / 36 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	7/8 x 3-1/4 in. Hex	T Handle
	BR45120	51 lbs / 23 kg	25 in. / 65 cm	14 in. / 36 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	T Handle
	BR45120E	51 lbs / 23 kg	25 in. / 65 cm	14 in. / 36 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	EZ Ride Foot
	BR45125S	55 lbs / 25 kg	28 in. / 72 cm	17.5 in. / 45 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	Anti Vibration
	BR45130	51 lbs / 23 kg	25 in. / 65 cm	17.5 in. / 45 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	T Handle
	BR45130E	51 lbs / 23 kg	25 in. / 65 cm	14 in. / 36 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	EZ Ride Foot
	BR45135S	55 lbs / 25 kg	28 in. / 72 cm	17.5 in. / 45 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	Anti Vibration
	BR45150	45 lbs / 20 kg	25 in. / 65 cm	14 in. / 36 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1 x 4-1/4 in. Hex	T Handle
	BR45550	45 lbs / 20 kg	25 in. / 65 cm	14 in. / 36 cm	4-6 gpm / 15-24 lpm	1300-2000 psi / 90-140 bar	2250 psi / 155 bar	1 x 4-1/4 in. Hex	T Handle
BR67	BR67120	72 lbs / 33 kg	27 in. / 68 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	T Handle
	BR67120E	72 lbs / 33 kg	27 in. / 68 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	EZ Ride Foot
	BR67125	78 lbs / 36 kg	29 in. / 73 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	Anti Vibration
	BR67130	72 lbs / 33 kg	27 in. / 68 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	T Handle
	BR67130E	67 lbs / 30 kg	27 in. / 68 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	EZ Ride Foot
	BR67135	78 lbs / 36 kg	29 in. / 73 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	Anti Vibration
BR87	BR87120	84 lbs / 38 kg	29 in. / 73.5 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	T Handle
	BR87120E	84 lbs / 38 kg	29 in. / 73.5 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	EZ Ride Foot
	BR87130	84 lbs / 38 kg	29 in. / 73.5 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	T Handle
	BR87130E	84 lbs / 38 kg	29 in. / 73.5 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	EZ Ride Foot

BREAKERS (INTERNATIONAL)

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.*
BR45	BR4514801	55 lbs / 25 kg	28 in. / 72 cm	17.5 in. / 45 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	7/8 x 3-1/4 in. Hex Parallel	CE, Anti Vibration
	BR4516801	55 lbs / 25 kg	28 in. / 72 cm	17.5 in. / 45 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1 x 4-1/4 in. Hex Parallel	CE, Anti Vibration
	BR4556801	56 lbs / 25 kg	28 in. / 72 cm	17.5 in. / 45 cm	4-6 gpm / 15-24 lpm	1300-2000 psi / 90-140 bar	2250 psi / 155 bar	1 x 4-1/4 in. Hex	T Handle
BR50	BR5017801	56 lbs / 25 kg	26.25 in. / 67 cm	13.75 in / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6-1/4 in. Hex	Anti Vibration
	BR5057801	56 lbs / 25 kg	26.25 in. / 67 cm	13.75 in/ / 35 cm	4-6 gpm / 15-24 lpm	1300-2000 psi / 90-140 bar	2250 psi / 155 bar	1-1/4 x 6-1/4 in. Hex	Anti Vib.
	BR50120	52 lbs / 24 kg	26.25 in. / 67 cm	13.75 in. / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	T Handle
	BR50130	52 lbs / 24 kg	24 in. / 61 cm	13.75 in. / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	T Handle
	BR50120E	52 lbs / 24 kg	26.25 in. / 67 cm	13.75 in. / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	EZ Ride Foot
	BR50130E	52 lbs / 24 kg	26.25 in. / 67 cm	13.75 in. / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	EZ Ride Foot
	BR50125	56 lbs / 25 kg	29.25 in. / 74 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/8 x 6 in. Hex	Anti Vibration
	BR50135	56 lbs / 25 kg	29.25 in. / 74 cm	18 in. / 46 cm-	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	Anti Vibration
BR67	BR6717801A	78 lbs / 36 kg	29 in. / 73 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1 x 4-1/4 in. Hex	T Handle
BR87	BR8717201	84 lbs / 38 kg	29 in. / 73.5 cm	16 in. / 41 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1-1/4 x 6 in. Hex	EZ Ride Foot

* CE designation indicates model is compliant with European standards

BREAKER ACCESSORIES

Model	Part No.	Description
7/8 in. Hex x 3-1/4 in.	02328	Clay Spade, 16 in. U/C
	02330	3 in. Chisel, 14 in. U/C
	02339	1 in. Chisel, 14 in. U/C
	02341	Asphalt Cutter, 5 in. blade x 11 in. U/C
	04401	Moil Point, 18 in. U/C
	04961	Moil Point, 14 in. U/C
	05255	Rod Driver, 3/4 in.
1 in. Hex x 4-1/4 in.	07702	Moil Point, 14 in. U/C
	07703	Narrow Point, 14 in. U/C
	07704	3 in. Chisel, 14 in. U/C
	07705	Clay Spade, 5-1/2 in. blade
	07706	Asphalt Wedge, 3 in. wide
1-1/8 in. Hex x 6 in.	02331	Clay Spade, 5-1/2 in. blade
	02332	Asphalt Cutter 5 x 11 in. U/C

Model	Part No.	Description
1-1/8 in. Hex x 6 in.	02333	Moil Point 14 in. U/C
	02334	3 in. Chisel, 14 in. U/C
	03990	Chisel Point 14 in. U/C
	04176	Ground Rod Driver, 1 in. rod
	08106	Asphalt Wedge
1-1/4 in. Hex x 6 in.	02335	Asphalt Cutter, 5 in. blade x 11 in. U/C
	02336	Moil Point, 14 in. U/C
	02337	3 in. Chisel, 14 in. U/C
	02338	1 in. Chisel with heavy duty 14 in. U/C
	04367	Ground Rod Driver, 1 in. rod
	04404	Moil Point Heavy Duty 18 in.
	04405	Clay Spade, 18 in. blade
	08119	Asphalt Wedge
	09262	Clay Spade, 5-1/2 in. blade
	17782	Detachable Shank

CHIPPING HAMMERS

CHIPPING HAMMER — MODEL CH15

The CH15 is a small chipping hammer designed for light duty chipping. It is commonly used for manhole and utility vault modifications or masonry repair and demolition. The body of the tool is shock and heat insulated. Comes with hose whips and flush-face quick disconnect couplers.

SPECIFICATIONS

Application: Chipping concrete, rock, or masonry such as utility vaults, street curbing, masonry work.
Tool Bit Size: .580 hex Shank Oval Collar, Steel Bits
Hyd. Flow: 4-6 or 7-9 gpm / 15-23 or 26-34 lpm
Weight: 16 lbs / 7.25 kg
Length: 17 in. / 43 cm
Width: 3 in. / 8 cm
Connection: 3/8 in. flush face quick disconnect couplers

CHIPPING HAMMER — MODEL CH18

The CH18 is a light but powerful chipping hammer designed for medium duty chipping. It is commonly used for manhole and utility vault modifications or masonry repair and demolition. The tool's "D" handle and tool bit holder are shock and heat insulated for operator comfort. Tool steels are held in place by a slide that is ball-and-spring detented. The CH18 uses standard .580-inch hex, round collar, chipper tool bits and comes with hose whips and flush-face quick disconnect couplers.

SPECIFICATIONS

Application: Chipping light concrete, rock, or masonry such as utility vaults, street curbing, masonry work.
Tool Bit Size: .580 in. Hex Shank, Round Collar, Steel Bits
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 24 lbs / 11 kg
Length: 20 in. / 51 cm
Width: 3 in. / 8 cm
Connection: 3/8 in. flush face quick disconnect couplers

CHIPPING HAMMERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
CH15	CH1513101	16 lbs / 7.3 kg	17 in. / 43 cm	3 in. / 7.6 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	.580 Hex - Oval Collar	CE, Solid Retainer
	CH1553101	16 lbs / 7.3 kg	17 in. / 43 cm	3 in. / 7.6 cm	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	.580 Hex - Oval Collar	CE, Solid Retainer
CH18	CH18111	24 lbs / 10.9 kg	20 in. / 51 cm	3 in. / 7.6 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	.580 Hex-Round Collar	-

CHIPPING HAMMER ACCESSORIES

Model	Part No.	Description
CH15	66256	Bull Point, .580 Hex, Oval Collar
	66257	Narrow Chisel Bit, .580 Hex, Oval Collar
CH18	02278	Flat Chisel Bit, 1 in. x 18 in. .580 Hex Rd. Collar

Model	Part No.	Description
CH18	02279	Bull Point Bit, 1 in. x 18 in. .580 Hex Rd. Collar
	03690	Chisel Bit, 1 in. x 9 in. .580 Hex Round Collar
	03963	Chisel Bit, 2 in. x 5 in. .580 Hex Round Collar

DIGGERS

DIGGER — MODEL DR19

SPECIFICATIONS

Application: Digging and rod driving in heavy clay, light shale, hardpan, frozen ground or dry hard dirt.
Tool Bit Size: 7/8-in. Hex x 3-1/4 in. Shank Steel Bits
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 24 lbs / 10.9 kg
Length: 20 in. / 50.8 cm
Width: 3 in. / 8 cm
Connection: 3/8 in. flush-face quick disconnect couplers

The DR19 is a compact digging spade for digging in materials such as heavy clay or light shale. The tool's "D" handle and tool bit holder are shock and heat insulated for operator comfort. Tool steels are held in place by a slide that is ball-and-spring detented. The DR19 uses standard 7/8-inch hex, round collar, steel tool bits and comes with hose whips and flush-face quick disconnect couplers.

DIGGERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Blows/ Minute	Capacity
DR19	DR19111	24 lbs / 10.9 kg	20 in. / 50 cm	3 in. / 7.6 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	1800 bpm	7/8-in. x 3-1/4 in. Shank

DIGGER ACCESSORIES

Model	Part No.	Description
DR19	02328	Clay Spade, 16 in. U/C
	02330	3 in. Chisel, 14 in. U/C
	02339	1 in. Chisel, 14 in. U/C

Model	Part No.	Description
DR19	02341	Asphalt Cutter, 5 in. blade x 11 in. U/C
	04401	Moil Point, 18 in. U/C
	05255	Rod Driver, 3/4 in.

POST DRIVER — MODEL PD45

SPECIFICATIONS

Application: Drives a variety of shapes and sizes of sign posts
Capacity: U-Channel Posts, Square Posts, Round Post, Delineators
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 65 lbs / 29 kg
Length: 30 in. / 76 cm
Width: 10 in. / 25 cm
Connection: 3/8 in. flush face quick disconnect couplers

The PD45 features dual guiding handles, a lifting eye and remote or integral On/Off Valve. Models with integral triggers run the full length of the handles and are spring loaded to the OFF position. A model is available to drive DOT required breakaway posts to within 4 inches / 100 mm above ground level. All PD45 models are furnished with flush faced quick disconnect couplers.

POST DRIVER

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
PD45	PD45131	65 lbs / 29 kg	30 in. / 76 cm	10 in. / 25 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	U-Channel, Delineator, Square & Round Post	In-Line Valve
	PD45132	67 lbs / 30 kg	30 in. / 76 cm	10 in. / 25 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	U-Channel, Delineator, Square & Round Post	Valve In Handle
	PD45132G	67 lbs / 30 kg	30 in. / 76 cm	10 in. / 25 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	U-Channel, Delineator, Square & Round Post	Valve In Handle Extended Anvil
	PD45131J	65 lbs / 29 kg	30 in. / 76 cm	10 in. / 25 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	U-Channel, Delineator, Square & Round Post	Remote Valve, 96 in. Hose

POST DRIVER ACCESSORIES

Part No.	Description
15184	Adapter - 1-3/4 in. square post
15185	Adapter - 2 in. round post
15186	Adapter - 2-1/4 in. sq. post

Part No.	Description
15187	Adapter - 2 in. sq. post
67784	Adapter - 1-3/4 in. round post

POST PULLER — MODEL PP10

The PP10 is designed to remove flanged type sign posts and irregularly shaped posts up to 8 in. / 20 cm wide. It features an 8 inch / 203 cm stroke and pulling force of 9800 lbs / 4450 kg. The PP10 uses two methods to solve post pulling problems. For flanged posts, the PP10 uses gripper jaws to grasp the flange. For many other posts, a chain is used. Pins on the end of the chain may be inserted into holes in perforated posts to keep the chain from sliding. A control valve is located on the tool. The PP10 is furnished with gripper jaws, chain with pins, and flush face quick disconnect couplers.

SPECIFICATIONS

Application: Pulls a variety of sign and fence posts
Capacity: Sign posts up to 8 in. / 20 cm Wide
Hyd. Flow: 3-9 gpm / 11-34 lpm
Weight: 70 lbs / 32 kg
Length: 13 in. / 32 cm
Width: 14 in. / 35 cm
Connection: 3/8 in. flush face quick disconnect couplers

POST PULLER

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
PP10	PP10100	70 lbs / 32 kg	13 in. / 32 cm	14 in. / 35 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	8 in. / 20 cm Post	-

SPIKE DRIVER — MODEL SD67

Stanley's SD67 Spike Driver is rugged and lightweight for use in medium to heavy-duty driving applications. The anti-vibration handles help reduce operator fatigue. Comes in two length options.

SPECIFICATIONS

Application: Securing temporary plates in the road during construction
Weight: 70 lbs / 31.8 kg
Length: 28.75 or 32.25 in. / 73 or 82 cm
Width at Handles: 18 in. / 45.8 cm
Working Pressure: 1000-2000 psi / 70-140 bar
Flow Range: 5-10 gpm / 20-38 lpm
Max. Back Pressure: 250 psi / 17 bar
Cup Width: 2.9 in. / 7.4 cm
Cup Inside Diameter: 1.9 in. / 4.8 cm
Porting: 8 SAE O-ring
Connection: HTMA flush faced coupler

FEATURES

- Rugged, lightweight construction for use in medium duty spike driving reduces operator fatigue
- Anti-vibration handle isolates the tool's vibration, further reducing operator fatigue
- Two length options are available which allow operator to stand in a fully-upright position for better comfort
- Feathering On/Off valve allows the operator to control the output energy of the tool, providing more control and ease of handling
- Diaphragm-type accumulator design provides for ease of maintenance and extended service life of the tool

SPIKE DRIVERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
SD67	SD67121	70 lbs / 31.8 kg	28.75 in. / 73 cm	18 in. / 45.8 cm	5-10 gpm / 20-38 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1.9 in. / 4.8 cm spikes	-
	SD67131	70 lbs / 31.8 kg	32.25 in. / 82 cm	18 in. / 45.8 cm	5-10 gpm / 20-38 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1.9 in. / 4.8 cm spikes	-

SPIKE PULLER — MODEL SP31

Stanley's SPL31 Lightweight Spike Puller provides the ultimate in spike removal. The dual-stage trigger greatly reduces spike kick-back to the operator. Pulling of spikes can be accomplished from any position making spike pulling simple and effortless.

SPECIFICATIONS

Application: Removing spikes used to secure temporary plates in the road during construction
Weight: 31 lbs* / 14 kg
Length: 32.75 in. / 83 cm
Width at Handles: 16.25 in. / 46 cm
Working Pressure: 2000-2500 psi / 70-140 bar
Flow Range: 5-10 gpm / 18-38 lpm
Max. Back Pressure: 250 psi / 17 bar
Pulling Force: 16,647 lbs / 7551 kg
Connection: 3/8 in. flush faced quick disconnect couplers

FEATURES

- Removes hairpin or cut spikes
- Pulls bent or damaged spikes
- Ergonomically designed trigger

SPIKE PULLER

Model	Part No.	Description	Weight	Length	Handle Width	Flow Range	Working Pressure	Pulling Force
SPL31	SPL31	Standard 2 Stage Cycle	31 lbs* / 14 kg	32.75 in. / 83 cm	16.25 in. / 40.6 cm	5-10 gpm / 18-38 lpm	2000-2500 psi / 70- 140 bar	16,647 lbs / 7551 kg
	SPL31A	Automatic Cycle	31 lbs* / 14 kg	32.75 in. / 83 cm	16.25 in. / 40.6 cm	5-10 gpm / 18-38 lpm	2000-2500 psi / 70-140 bar	16,647 lbs / 7551 kg

*31 lb tool weight is wet without whips and couplers

POLE TAMPER — MODEL TA54

SPECIFICATIONS

Application: Compacting soil around utility poles, sign and fence posts.
Capacity: Kidney shaped shoe
Hyd. Flow: 3-9 gpm / 11-34 lpm
Weight: 39 lbs / 18 kg
Length: 71 in. / 180 cm
Width: 4 in. / 10 cm
Connection: -8 SAE Port

FEATURES

- Ideal for soil compaction around utility poles, signs and fence posts
- Long stroke keeps the TA54 above the fill
- 1600 blows per minute - 2-1/2 inch stroke
- On/Off valve in handle
- 2 moving parts

TA54103 with valve in handle

BACKFILL TAMPER — MODEL TA57

SPECIFICATIONS

Application: Back filling small or narrow areas.
Capacity: 6 in. / 15.2 cm round shoe
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 46 lbs / 20 kg
Length: 48 in. / 122 cm
Width: 4 in. / 10 cm
Connection: 3/8 in. flush faced quick disconnect couplers

FEATURES

- Ideal for back filling in small or narrow areas
- Long stroke keeps the TA57 above the fill
- 750 blows per minute - 3 inch stroke
- 3 moving parts
- On/Off valve
- Optional 6 inch square shoe

TA57

TAMPER SPECIFICATIONS AND ACCESSORIES ON THE FOLLOWING PAGE //

TAMPERS & EARTH AUGERS

TAMPERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Blows/ Minute	Valve	Shoe	Coupler
TA54	TA54103	30 lbs / 13.6 kg	71 in. / 180 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	In Handle	Kidney	No
	TA54603	30 lbs / 13.6 kg	71 in. / 180 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	No Valve	Kidney	No
	TA54603A	37 lbs / 17 kg	71 in. / 180 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	Remote In Line	Kidney	Yes
TA57	TA57112	46 lbs / 20 kg	48 in. / 122 cm	4 in. / 10 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	750 bpm	In Handle	Round	Yes

TAMPER ACCESSORIES

Model	Part No.	Description
TA54	01250	10 ft. Siamese Hose
	00833	Kidney Shoe
	00836	8 ft. Siamese Hose
	00840	Round Shoe, 6 in. dia.

Model	Part No.	Description
TA54	01070	Rectangular Shoe
	72264	In-Line Valve Assembly, OC/CC
TA57	08252	Square Shoe, 6 in. x 6 in.

EARTH AUGER — MODEL EA08

The EA08 features an output torque of 250 ft lb / 339 Nm to handle a wide variety of earth boring applications up to 18 inches / 46 cm in diameter and 42 inches / 107 cm deep. It is configured with 4 handles for two-man operation but can be used by one-man by connecting the torque tube to a power unit or other solid object. An ergonomically designed forward and reverse control valve lever is integrated into the handle. The EA08 accepts 1-3/8 in. hex female augers. The EA08 is furnished with flush face quick disconnect couplers. Augers are sold separately.

SPECIFICATIONS

Application: Earth boring for posts and poles.
Capacity: Up to 18 in. / 46 cm Diameter x 42 in. / 107 cm Long Auger
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 47 lbs / 21 kg
Length: 11 in. / 30 cm
Width: 46 in. / 117 cm
Connection: 3/8 in. flush face quick disconnect couplers

EARTH AUGER

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
EA08	EA08102A	47 lbs / 21 kg	11 in. / 30 cm	46 in. / 117 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	18 in. / 46 cm Dia. Auger	1-3/8 in. Hex Male

EARTH AUGER ACCESSORIES

Part No.	Description
47406	Auger, 2 in. dia x 42 in. OAL (requires 58585)
47407	Auger, 3 in. dia x 42 in. OAL (requires 58586)
47408	Auger, 4 in. dia x 42 in. OAL
47409	Auger, 6 in. dia x 42 in. OAL
47410	Auger, 8 in. dia x 42 in. OAL
47411	Auger, 10 in. dia x 42 in. OAL
47412	Auger, 12 in. dia x 42 in. OAL
47413	Auger, 16 in. dia x 42 in. OAL
47414	Auger, 18 in. dia Nursery

Part No.	Description
47415	Extension Tube, 15 in. OAL
47429	Digging Tooth w/Hardface
47430	2 in. Center Screw Bit for 6-12 in.
47431	Center Screw Bit for 3 in.
47432	Center Screw Bit for 4 in.
39408	Coupler, 1-1/4 in. Square Female
58585	Drive Coupler, 13/16 x 1-3/8 in. for 47406 Auger
58586	Drive Coupler, 1-1/8 x 1-1/8 in. for 47407 Auger
39410	Auger Extension, 8 in. dia. x 36 in. OAL
65477	Drive Hub, Stanley 1-1/4 in. Hex

CUT-OFF SAWS

CUT-OFF SAW — MODEL CO25

CO25 shown with abrasive blade (not included)

SPECIFICATIONS

Application: Cutting metal or masonry materials such as concrete, brick, structural steel, pipe, and guardrail.
Wheel Size: 1 in. arbor, 14 in. diameter abrasive or diamond segmented
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 20 lbs / 9.1 kg
Length: 21 in. / 53.3 cm
Width: 11 in. / 28 cm
Max. Cutting Capacity: 5 in. / 12.7 cm
Connection: 3/8 in. flush face quick disconnect coupler

FEATURES

- Cast aluminum handle with inter-locking safety trigger
- Adjustable wheel guard
- Build-in flow control to prevent overspeeding, and a blade brake that retards spindle rotation
- Two models available: clockwise or counter-clockwise rotation
- Hose whips and flush-face quick disconnect couplers

Options include a handle extension kit for upright operation to meet operator preference, a water attachment kit for dust suppression and a saw cart for flat concrete and

CUT-OFF SAWS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Rotation/ RPM	Wheel Capacity	Misc
CO25	CO25141	20 lbs / 9 kg	21 in. / 53 cm	11 in. / 28 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	CCW / 4500	14 in. / 35 cm	-
	CO2514101	20 lbs / 9 kg	21 in. / 53 cm	11 in. / 28 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	CCW / 4500	14 in. / 35 cm	CE
	CO25541	20 lbs / 9 kg	21 in. / 53 cm	11 in. / 28 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	CW / 4500	14 in. / 35 cm	-
	CO2554101	20 lbs / 9 kg	21 in. / 53 cm	11 in. / 28 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	CW / 4500	14 in. / 35 cm	CE

CUT-OFF SAW ACCESSORIES

Model	Part No.	Description
CO25	02691	14 in. Abrasive Wheel for metal, 1 in. arbor
	02692	14 in. Abrasive Wheel for masonry, 1 in. arbor
	33228	Water Attachment for CO25

Model	Part No.	Description
CO25	69290	Slab Saw Cart
	69704	Water Tank for 69290 Saw Cart
	34175	Handle Extension Kit
	62358	Diamond Blade, 14 in. dry cut

MAXIMUM CUTTING POWER

CUTTING WITH HYDRAULIC POWER

Operators familiar with conventional cutting equipment such as gasoline chain saws and circle saws are easily impressed with the power of hydraulic cutting equipment because the power-to-weight ratio is significantly higher. For example, our CS06 Chainsaw produces almost twice as much power as its gasoline engine counterparts and weighs about half as much.

Compared to conventional cutting equipment Stanley hydraulic cutting tools offer:

- More work in less time
- Less effort
- Longer tool life
- Minimal maintenance
- Minimal downtime
- Increased safety
- Longer warranty

CHAIN SAW **MODEL CS05/CS06**

CS06

SPECIFICATIONS

Application: Wood Cutting - Trees, Limbs, Timbers, Utility Poles, Wood Structures
Capacity: 12, 15, & 20 in. / 30, 38, & 51 cm Bars
Hyd. Flow: 4-6 gpm / 15-23 lpm for CS05, 7-9 gpm / 26-34 lpm for CS06
Weight: 6.25 lbs / 2.8 kg
Overall Length: 27, 30, & 35 in. / 69, 76, & 89 cm
Width: 9 in. / 23 cm
Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

FEATURES

- Highest power-to-weight ratio of any chain saw on the market today
- Trigger Lock
- Hand guard
- Dual spool for open center or closed center operation
- Low kickback bars and chains
- Inherently low-kickback hydraulic motor
- Automatic chain oiler
- Hyrevz™ motor

WOOD-CUTTING CHAINSAWS

CHAIN SAW **MODEL CS25/CS28**

SPECIFICATIONS

Application: Tree Trimming
Capacity: 12 in. / 30 cm Bars
Hyd. Flow: 4-6 gpm / 15-23 lpm for CS25, 7-9 gpm / 26-34 lpm for CS28
Weight: 8.4 & 9 lbs / 3.8 & 4 kg
Overall Length: 75 & 90 in. / 191 & 229 cm
Width: 4.375 in. / 11 cm
Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

FEATURES

- Used for trimming and pruning large tree branches
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews
- Fiberglass pole handle
- Hyrevz™ motor
- Dual spool for operation on open center or closed center systems
- Automatic chain oiling

CHAIN SAWS

Model	Part No.	Weight	Overall Length	Width	Flow Range	Working Pressure	Full Relief Setting	Cut Capacity	Misc.
CS05	CS05610	6.25 lbs / 2.8 kg	27 in. / 69 cm	9 in. / 23 cm	4-6 gpm / 15-23 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	13 in. / 33 cm	OC/CC
	CS05620	6.25 lbs / 2.8 kg	30 in. / 76 cm	9 in. / 23 cm	4-6 gpm / 15-23 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	15 in. / 38 cm	OC/CC
CS06	CS06610	6.25 lbs / 2.8 kg	27 in. / 69 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	13 in. / 33 cm	OC/CC
	CS06620	6.25 lbs / 2.8 kg	30 in. / 76 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	15 in. / 38 cm	OC/CC
	CS06630	6.25 lbs / 2.8 kg	35 in. / 89 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	20 in. / 51 cm	OC/CC
CS25	CS25811	9 lbs / 4 kg	90 in. / 229 cm	4.375 in. / 11 cm [1]	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC
	CS25812	9 lbs / 4 kg	75 in. / 191 cm	4.375 in. / 11 cm [1]	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC
CS28	CS28811	9 lbs / 4 kg	90 in. / 229 cm	4.375 in. / 11 cm [1]	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC
	CS28812	8.4 lbs / 3.8 kg	75 in. / 191 cm	4.375 in. / 11 cm [1]	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC

[1] Measured at motor end

CHAIN SAW ACCESSORIES

Model	Part No.	Description
CS05/CS06	07629	Rim Sprocket, .325P x 7 tooth
	07638	15 in. Saw Bar
	07639	20 in. Saw Bar
	07641	Saw Chain for 15 in. bar
	07642	Saw Chain for 20 in. bar
CS25/CS28	05144	Chain/Bar Guard
	07616	Sprocket Spline Adapter
	07629	Rim Sprocket, .325P x 7 tooth

Model	Part No.	Description
ALL	12363	File Guide
	08347	13 in. Saw Bar
	08348	Saw Chain for 13 in. bar
	11464	Scrench
	33289	Chain Saw File
	11294	Flat File

THE BEST YOU EVER SAW

Model DS06

DS06 & DS11 DIAMOND CHAIN SAWS

Diamond chain saws use a revolutionary chain with laser welded segments impregnated with diamonds. This chain, coupled with a bar containing water channels for chain lubrication, make cutting concrete, brick, masonry, and stone an easy task.

A distinct advantage of a diamond chain saw over a diamond circular saw is cutting square corners without over-cut. A diamond chain saw is the perfect tool for plunge cutting for window and door openings, air conditioner cut-outs, and notching or trimming.

DIAMOND CHAIN TECHNOLOGY

The newest generation of diamond chains dramatically reduce the chain wear of cutting concrete. SealPro™ technology extends chain chassis life by up to 50% or more, simplifies water pressure requirements and reduces the frequency of chain tensioning adjustments.

SealPro™ technology incorporates a patented new chain chassis design that seals out abrasive contaminants. A unique O-ring design seals the rivet-joints of the chain, keeping the abrasive materials out and the lubrication in.

Diamond chains with SealPro™ work at low water pressures eliminating the need for water booster pumps. The new chains can be used with water from an ordinary garden hose and will yield excellent chain life at pressures as low as 20 psi.

Other important advantages of SealPro™ technology are reduced chain stretch resulting in fewer tensioning adjustments over time.

CHAIN SELECTION CHART

Aggregate	Extra Hard		Hard	Medium		Soft		Abrasive
Material	Chert Flint	Basalt Quartz	Granite River Rock	Marble Limestone	Sandstone			Masonry, Brick, Block, Green Concrete
Approximate Moh's Scale	9	8	7	6	5	4	3	
Reinforcing Steel	Lots of Steel			Some Steel				No Steel
	1"	Double Mat	Single Mat	#5	#4	#3	Wire Mesh	
Saw Chain Wear (in.-ft.) **Pinnacle-32** **Pinnacle-37**	150 in-ft			600-800 in-ft		2000 in-ft		
Ultra-32 **Ultra-37**			200 in-ft					1500 in-ft

DIAMOND CHAIN SAW — MODEL DS06

The DS06 is lightweight, powerful and ideal for fast cutting of concrete, reinforced concrete, conduit, brick, stone and other masonry. 13 inch plunge cut capability allows quick cutting of window, door, conduit and duct openings in walls and notching and trimming of concrete pipe. Trigger activated water for lubrication and cooling is ported through the bar and applied at the point where the concrete is being cut.

The DS06 is provided with The Wall Walker™ to provide leverage for cutting, water connection, and flush face quick disconnect couplers. The bar and chain are sold separately.

SPECIFICATIONS

Application: Cutting concrete, reinforced concrete, conduit, brick, stone and other masonry.
Capacity: 13 in. / 33 cm Bar
Hyd. Flow: 4-6 or 7-9 gpm / 15-23 or 26-34 lpm (see ordering info)
Weight: 14 lbs / 6 kg
Length: 24 in. / 61 cm
Width: 9 in. / 23 cm
Connection: 3/8 in. flush face quick disconnect couplers

DIAMOND CHAIN SAW — MODEL DS11

The DS11 is a heavy duty and powerful diamond chain saw that is ideal for fast cutting of concrete, reinforced concrete, conduit, brick, stone and other masonry. Plunge cut capability allows quick cutting of window, door, conduit and duct openings in walls and notching and trimming of concrete pipe. Trigger activated water for lubrication and cooling is ported through the bar and applied at the point where the concrete is being cut.

The DS11 features ergonomic handles and guards to help reduce operator fatigue, water connection, flush face quick disconnect couplers, and is powered by a Stanley Hyrevz™ motor. The Wall Walker™ that provides leverage for cutting is standard equipment. The bar and chain are sold separately.

SPECIFICATIONS

Application: Cutting concrete, reinforced concrete, conduit, brick, stone and other masonry.
Capacity: 15 or 18 in. / 33 or 46 cm Bar
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 26 lbs / 11 kg
Length: 38 in. / 97 cm
Width: 9 in. / 23 cm
Connection: 3/8 in. flush face quick disconnect couplers

DIAMOND SAWS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Output	Discharge
DS06	DS06200001*	14 lbs / 6 kg	24 in. / 61 cm	9 in. / 23 cm	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	13 in. / 33 cm Bar	CE
	DS063000*	14 lbs / 6 kg	24 in. / 61 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	13 in. / 33 cm Bar	-
	DS06300001*	14 lbs / 6 kg	24 in. / 61 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	13 in. / 33 cm Bar	CE
DS11	DS113000*	26 lbs / 11 kg	38 in. / 97 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	15, 18 in. / 33, 46 cm Bar	CE

* NOTE: Bar and Chain Not Included - Must be Ordered Separately

DIAMOND SAW ACCESSORIES

Model	Part No.	Description
DS06	35037	Bar, 13 in. Sprocket Nose
	56799	Diamond Chain, 13 in. Ultra 25
	56800	Diamond Chain, 13 in. Pinnacle 25
	65797	Flap Kit
DS06/DS11	20857	Chain Repair Spinner
	20858	Chain Repair Breaker
	20859	Diamond Chain Butterfly Repair Kit
	60859	Water Flow Meter, 0-7 gpm
	56767	Connecting Link, 5-Pack

Model	Part No.	Description
DS11	30305	Bar, 15 in., sprocket nose
	30306	Bar, 18 in., sprocket nose
	39496	SpeedHook® Kit
	39497	42 in. SpeedHook® Rail
	39501	Saw mounting bracket assy
	56801	Diamond Chain, 15 in., Ultra 32
	56802	Diamond Chain, 18 in., Ultra 37
	56803	Diamond Chain, 15 in., Pinnacle 32
	58632	Diamond Chain, 18 in., Pinnacle 37
	23517	Sprocket Wrench

DUCTILE IRON PIPE SAW & PUMP

UTILITY CHAIN SAW — MODEL DS12

Stanley's New Utility Chain Saw is a revolutionary cutting method designed to change the way the job gets done. From ductile iron to plastic pipe, this chain saw will get you in and out of the job faster, easier and safer than other methods. Utilizing a brazed layer diamond coating on a durable chain chassis, this technology provides improved access with far less excavation in a confined space such as cutting water main pipe in a ditch.

UTILITY CHAIN SAW

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity	Misc.
DS12	DS12315	26 lbs / 11.8 kg	35 in. / 89 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	15 in. / 38 cm Utility Bar	Utility Bar & Chain with HTMA couplers
	DS12318	26 lbs / 11.8 kg	38 in. / 97 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	18 in. / 45 cm Utility Bar	Utility Bar & Chain with HTMA couplers
	DS1231801	26 lbs / 11.8 kg	38 in. / 97 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	18 in. / 45 cm Utility Bar	Utility Bar & Chain with HTMA couplers. CE

UTILITY CHAIN SAW ACCESSORIES

Model	Part No.	Description
DS12	71050	15" Utility Chain
	71049	15" Bar for Utility Chain
	71048	18" Utility Chain
	71047	18" Bar for Utility Chain

Model	Part No.	Description
DS12	71055	Pipe Clamp Assembly
	71046	Drive Sprocket
	60859	Water Flow meter, 0-7 GPM
	23517	Sprocket Wrench

PORTABLE WATER PUMP — MODEL DCP30

The DCP30 is a 12 volt pump capable of self priming up to an eight foot lift. It delivers 2.2 GPM at 40 PSI and is thermal protected to prevent overheating. A built in check valve prevents backward flow and maintains pressure after shut-off. The DCP30 is available with battery clips or a marine style DC plug. Ideal for providing adequate water for diamond concrete or ductile iron chain saws.

PORTABLE WATER PUMP

Model	Description
DCP30101	Water Pump, 12v DC, Battery Clip
DCP30100	Water Pump, 12v DC, Marine Type

CIRCULAR SAW & PRUNERS

CIRCULAR SAW — MODEL CR27

SPECIFICATIONS

Application: Tree Trimming and Brush Cutting
Capacity: 9 in. / 23 cm Dia. Saw Blade
Hyd. Flow: 5-7 gpm / 19-26 lpm
Weight: 9.75 lbs / 4.4 kg
Length: 79 in. / 200 cm
Width: 9 in. / 23 cm
Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

FEATURES

- Used for trimming and pruning tree branches
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews
- Fiberglass pole handle
- Integral Hyrevz™ motor
- Angled head
- Dual spool for operation on Open Center or Closed Center systems
- Double cone-lock blade nut
- Blade brake to reduce coast-down time
- Comes with 9" blade (34356)

CIRCLE SAWS

Model	Part No.	Weight	Length	Flow Range	Working Pressure	Full Relief Setting	Cutting Component (included)	Couplers
CR27	CR27891	9.6 lbs / 4.4 kg	79 in. / 200.7 cm	5-7 gpm / 19-26 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	9 in. / 22.9 cm Saw Blade - 24 Tooth	No

CIRCLE SAW ACCESSORIES

Part No.	Description
34356	9 in. / 22.9 cm Circle Saw Blade - 24 Tooth
00425	9 in. / 22.9 cm Circle Saw Blade - 44 Tooth

Part No.	Description
34653	Tooth Setting Tool for 34356 Blade
11299	File Guide with 7/32 in. round File

PRUNER — MODEL PR41

SPECIFICATIONS

Application: Tree Trimming
Capacity: 2.25 in. / 5.7 cm Cut
Hyd. Flow: 3-9 gpm / 11-34 lpm
Weight: 11.5 lbs / 5.2 kg
Length: 84 in. / 213 cm
Width: 6 in. / 15 cm
Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

FEATURES

- Used for selective tree limb pruning up a 2-1/4 inch / 5.7 cm cut
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews
- Lightweight head design that provides easy handling
- Full power on both opening and closing cycles
- Improved geometry of knife and hook provides increased cutting efficiency
- Fiberglass pole handle
- Sold in either open center or closed center configurations

PRUNERS

Model	Part No.	Configuration	Weight	Length	Flow Range	Working Pressure	Full Relief Setting	Cutting Component (included)	Couplers
PR41	PR41131	Open Center	11.5 lbs / 5.2 kg	84 in. / 213.4 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	2-1/4 in. / 5.7 cm Cut Knife	No
	PR41231	Closed Center	11.5 lbs / 5.2 kg	84 in. / 213.4 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	2-1/4 in. / 5.7 cm Cut Knife	No

PRUNER ACCESSORIES

Model	Part No.	Description
PR41	56849	Knife

GRINDER — MODEL GR30

The GR30 can be used for grinding and cleaning with either cup or standard type grinding wheels and wire or nylon brushes. The GR30 features an assist handle, adjustable, rotating wheel guard, insulated handle, flow control for over-speed prevention, counter-clockwise rotation and is powered by an integral Stanley Hyrevz™ motor. The GR30 is furnished with hose whips and flush face quick disconnect couplers.

SPECIFICATIONS
Application: Grinding and cleaning.
Capacity: 5/8 in. - 11 Arbor, 9 in. / 22.8 cm Dia. Wheel
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 13 lbs / 5.9 kg
Length: 8 in. / 20 cm
Width: 28 in. / 71 cm
Connection: 3/8 in. flush face quick disconnect couplers

BULL-NOSE GRINDER — MODEL HG60

The HG60 is ideal for grinding and de-burring drilled holes. Its compact and lightweight design helps reduce operator fatigue in repetitive grinding operations. The built-in flow control valve prevents the chance of excessive spindle speed, protecting the motor and increasing tool life. The HG60 features an interlocking safety trigger, insulated handle, counter-clockwise rotation and is powered by an integral Stanley Hyrevz™ motor. It is furnished with hose whips and flush face quick disconnect couplers.

SPECIFICATIONS
Application: Grinding and de-burring.
Capacity: 5/8 in. - 11 Arbor, 2.5 in. Dia. x 2.75 in. Grinding Stone
Hyd. Flow: 5-10 gpm / 19.38 lpm
Weight: 11 lbs / 5.13 kg
Length: 23 in. / 58 cm
Width: 3 in. / 8 cm
Connection: 3/8 in. flush face quick disconnect couplers

HORIZONTAL GRINDER — MODEL HG80

The HG80 is used for grinding and shaping right angle surfaces such as I-beams and structural steel. The HG80 is built for heavy-duty use with deep row ball bearing, needle main spindle bearings, independently supported spindle, and cast aluminum wheel guard. The HG80 features an interlocking safety trigger, insulated handle, spindle shaft lock, counter-clockwise rotation and is powered by an integral Stanley Hyrevz™ motor. It is furnished with hose whips and flush face quick disconnect couplers.

SPECIFICATIONS
Application: Grinding and deburring of right angle surfaces.
Capacity: 5/8 in. - 11 Arbor, 8 in. Dia. x 1 in. / 20 x 2.5 cm Grinding Wheel
Hyd. Flow: 8-10 gpm / 30-38 lpm
Weight: 14 lbs / 6.4 kg
Length: 23 in. / 58 cm
Width: 10 in. / 25 cm
Connection: 3/8 in. flush-face quick disconnect couplers

GRINDERS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Rotation/ RPM	Wheel Capacity	Misc.
GR30	GR30701	13 lbs / 5.9 kg	8 in. / 20 cm	28 in. / 71 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 70-140 bar	2250 psi / 155 bar	CCW / 5800	9 in. / 22.8 cm	-
	GR3070101	13 lbs / 5.9 kg	8 in. / 20 cm	28 in. / 71 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 70-140 bar	2250 pis / 155 bar	CCW / 5800	9 in. / 22.8 cm	CE
HG60	HG60130B	11 lbs / 5 kg	23 in. / 58 cm	3 in. / 8 cm	5-10 gpm / 19-38 lpm	1500-2000 psi / 70-140 bar	2250 psi / 155 bar	CCW / 4500	2-1/2 in. / 6.3 cm	Bullnose
HG80	HG80110B	14 lbs / 6 kg	23 in. / 58 cm	10 in. / 25 cm	8-10 gpm / 30-38 lpm	1500-2000 psi / 70-140 bar	2250 psi / 155 bar	CCW / 4500	8 in. / 20 cm	-
	HG80120B	14 lbs / 6 kg	23 in. / 58 cm	10 in. / 25 cm	8-10 gpm / 30-38 lpm	1500-2000 psi / 70-140 bar	2250 psi / 155 bar	CW / 4500	8 in. / 20 cm	-

GRINDER ACCESSORIES

Model	Part No.	Description
GR30	02587	Grinding Wheel for metal, 9 in. dia. x 5/8 in., 11 thd. Arbor
	02588	Grinding Wheel for masonry, 9 in. dia. x 5/8 in., 11 thd. Arbor
	03691	Grinding Wheel, 7 in. dia. x 5/8 in., 11 thd. Arbor
	05194	Depressed Center Wheel Adapter

Model	Part No.	Description
HG60	30872	Grinding Cone
HG80	26847	Straight Assist Handle

WORLDWIDE IMPACT

We provide tools to municipalities, water districts, governments and private contractors for construction and maintenance of electric power, telephone service, gas, water, wastewater, and cable TV distribution. And to transportation entities for construction and maintenance of streets, roads, highways and railways.

Utility trucks with hydraulic tool circuits or compact power units meeting HTMA standards can operate tools for breaking, drilling and cutting of pavement, railroad cutting and drilling, and many other day-to-day tasks performed by utility workers, road crews, and railway crews.

Our tools are used in cities and towns around the world to help build and maintain their infrastructures.

IW24 and Hydrant Saver tool removing fire hydrant valve seat

IMPACT DRILL/WRENCH — MODEL ID07

The ID07 is a high torque impact wrench used for tightening and loosening nuts and driving lag bolts. Delivers impact torque of up to 500 ft. lbs. / 675 Nm. Available with friction ring or pin type socket retainer.

SPECIFICATIONS

Application: Nut and bolt tightening or loosening.
Capacity: 1/2 in. Square Drive or 7/16 in. Hex
Hyd. Flow: 4-12 gpm / 15-45 lpm
Weight: 7.2 lbs / 3.3 kg
Length: 9 in. / 23 cm
Width: 5 in. / 11 cm
Connection: 3/8 in. flush face quick disconnect couplers (Couplers sold separately)

FEATURES

- 500 ft. lbs. / 675 Nm of impact torque
- Durable Swing-hammer mechanism
- Forward-Reverse spool with heavy duty wiper seals and replaceable seal carriers
- Reverse-flow check valve prevents operation if the tool is plumbed backwards
- Cast-in lifting eye
- Built-in selector for Open Center or Closed Center systems
- Replaceable pressure relief valve designed for serviceability
- With or without a trigger guard

DRILL — MODEL DL07

The DL07 is a variable speed drill with reverse capability. It features a 1/2 inch keyed chuck, dual position assist handle, dual-spool for open center or closed center operation, trigger guard, and is powered by an integral Hyrevz™ motor. A reverse-flow check valve prevents operation if tool is plumbed backwards. The DL07 is furnished with flush face quick disconnect couplers.

SPECIFICATIONS

Application: Drilling holes in wood, metal, masonry and fiberglass.
Capacity: 1/2 in. Chuck
RPM: 350-1250
Hyd. Flow: 3-10 gpm / 11-38 lpm
Weight: 6 lbs / 2.7 kg
Length: 9 in. / 23 cm
Width: 4 in. / 10 cm
Connection: 3/8 in. flush face quick disconnect couplers

IMPACT WRENCHES & DRILLS

IMPACT DRILL/WRENCH & DRILL

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Torque	Capacity	Misc.
ID07	ID07820	7.2 lbs / 3.3 kg	9 in. / 23 cm	5 in. / 11 cm	4-12 gpm / 15-45 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	500 ft lbs	1/2 in. Square Drive	Pin Retainer
	ID07830	7.2 lbs / 3.3 kg	9 in. / 23 cm	5 in. / 11 cm	4-12 gpm / 15-45 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	500 ft lbs	1/2 in. Square Drive	Friction Ring
	ID0782001	7.2 lbs / 3.3 kg	9 in. / 23 cm	5 in. / 11 cm	4-12 gpm / 15-45 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	500 ft lbs	1/2 in. Square Drive	CE
DL07	DL07550	6 lbs / 2.7 kg	9 in. / 23 cm	4 in. / 10 cm	3-10 gpm / 11-38 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	350-1250 rpm	1/2 in. / 12 mm Chuck	Dual-Spool
	DL0755001	6 lbs / 2.7 kg	9 in. / 23 cm	4 in. / 10 cm	3-10 gpm / 11-38 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	350-1250 rpm	1/2 in. / 12 mm Chuck	Dual Spool CE

DRILL ACCESSORIES

Model	Part No.	Description
ID07	05079	Chuck Adapter, 1/2 in. sq. x 7/16 in. hex QC
	05108	Impact Socket, 1/2 in., 8 pt Deep Well
	05109	Impact Socket, 9/16 in., 8 pt Deep Well
	05110	Impact Socket, 5/8 in., 8 pt Deep Well
	05111	Impact Socket; 11/16 in., 8 pt Deep Well
	05112	Impact Socket, 3/4 in., 8 pt Deep Well
	05113	Impact Socket, 13/16 in., 8 pt Deep Well
	05114	Impact Socket, 7/8 in., 8 pt Deep Well
	05115	Impact Socket, 15/16 in., 8 pt Deep Well
	05116	Impact Socket, 1 in., 8 pt Deep Well
	31951	Trigger Guard Kit, ID07
	33155	Lineman's Socket, 13/16 * 15/16 in.
	33156	Lineman's Socket, 1 & 1-5/8 in.
	05080	Adaptor, 5/8 in. Hex x 1/2 in. Square Drive
	05117	Adaptor, 7/16 in. Hex Male x 1/2 in. Square Drive
	07192	Adaptor, 1/2 in. Square Drive to 5/8 in. QC
	27845	Pole Bit, 5/8 in. Hex Shank, 9/16 x 8 x 22 in.
	27847	Pole Bit, 5/8 in. Hex Shank, 13/16 x 8 x 22 in.

Model	Part No.	Description
7/16 Hex Shank Pole Bits		
ID07	27850	9/16 x 8 x 12, 7/16 in. Hex
	27851	11/16 x 8 x 12, 7/16 in. Hex
	27852	13/16 x 8 x 12, 7/16 in. Hex
	27853	15/16 x 8 x 12, 7/16 in. Hex
	27854	1-1/16 x 8 x 12, 7/16 in. Hex
	27855	9/16 x 12 x 16, 7/16 in. Hex
	27856	11/16 x 12 x 16, 7/16 in. Hex
	27857	13/16 x 12 x 16, 7/16 in. Hex
	27858	15/16 x 12 x 16, 7/16 in. Hex
	27859	1-1/16 x 12 x 16, 7/16 in. Hex
	27860	9/16 x 18 x 22, 7/16 in. Hex
	27861	11/16 x 18 x 22, 7/16 in. Hex
	27862	13/16 x 18 x 22, 7/16 in. Hex
	27863	15/16 x 18 x 22, 7/16 in. Hex
	27864	1-1/16 x 18 x 22, 7/16 in. Hex
DL07	04624	1/2 in. Chuck
	27628	5/8 in. Chuck

IMPACT WRENCHES & DRILLS

IMPACT WRENCH — MODEL IW12

SPECIFICATIONS

Application: Nut and bolt tightening or loosening, anchor bolt driving.
Capacity: 3/4 in. Square Drive
Hyd. Flow: 4-12 gpm / 15-45 lpm
Weight: 14 lbs / 6.4 kg
Length: 9.5 in. / 24 cm
Width: 4 in. / 10 cm
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Adjustable impact intensity, from 250 to 1200 ft. lb. / 340 to 1632 Nm
- Swing Hammer Mechanism
- Feathering trigger
- Reversing valve for instant change over from forward to reverse
- 3/4 inch square drive
- With or without a trigger guard

IMPACT WRENCH — MODEL IW16

SPECIFICATIONS

Application: Nut and bolt tightening or loosening, anchor bolt driving
Capacity: 1 in. Square Drive
Hyd. Flow: 7-12 gpm / 26-45 lpm
Weight: 26 lbs / 12 kg
Length: 14.5 in. / 37 cm
Width: 4.5 in. / 11 cm
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Adjustable impact intensity, from 500 to 2500 ft. lb. / 680 to 3400 Nm
- Swing Hammer Mechanism
- Feathering trigger and "D" handle
- Reversing valve for instant change over from forward to reverse
- 1 inch square drive

IMPACT WRENCH — MODEL IW24

SPECIFICATIONS

Application: Nut and bolt driving and screw anchor applications, power to Stanley "Hydrant Saver"
Capacity: 1-1/2 in. Square Drive
Hyd. Flow: 7-12 gpm / 26-45 lpm
Weight: 43 lbs / 20 kg
Length: 16.5 in. / 41 cm
Width: 5 in. / 13 cm
Connection: 3/8 in. Male Pipe Adapter to -8 SAE straight thread port

FEATURES

- Adjustable impact intensity, from 800 to 3500 ft. lbs. / 1088 to 4760 Nm
- Swing Hammer Mechanism
- "D" handle
- Feathering trigger
- Reversing valve for instant change over from forward to reverse
- 1-1/2 inch square drive

IMPACT WRENCHES

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Torque	Capacity	Misc.
IW12	IW12140	14 lbs / 6.4 kg	9 in. / 24 cm	4 in. / 10 cm	4-12 gpm / 15-45 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	250-1200 ft lbs	3/4 in. Square Drive	-
	IW1214001	14 lbs / 6.4 kg	9 in. / 24 cm	4 in. / 10 cm	4-12 gpm / 15-45 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	250-1200 ft lbs	3/4 in. Square Drive	CE
IW16	IW16150	26 lbs / 12 kg	14 in. / 37 cm	5 in. / 11 cm	7-12gpm / 26-45 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	500-2500 ft lbs	1 in. Square Drive	CE
IW24	IW24160	43 lbs / 20 kg	16 in. / 41 cm	5 in. / 13 cm	7-12gpm / 26-45 lpm	1800-2000 psi / 124-140 bar	2250 psi / 155 bar	800-3500 ft lbs	1-1/2 in. Square Drive	-

IMPACT WRENCH ACCESSORIES

Model	Part No.	Description
IW12	01857	Adjustable Chuck & Adapter

HYDRANT SAVERS

HYDRANT SAVER

The Hydrant Saver can be powered by the IW24 Impact Wrench to safely remove fire hydrant valve seats - even those that have seized due to lack of periodic maintenance. The Hydrant Saver allows servicing of hydrants obstructed by walls, fences, buildings, etc. that previously had to be replaced.

Two complete kits available: Northern Kit with 8 ft. power tube and the Southern Kit with a 6-1/2 ft. power tube. Both kits include a 1-1/2 ft. extension, alignment wrench, retaining pins, and a Mueller 5-1/4 in. socket. A complete selection of sockets is available from Stanley Hydraulic Tools to fit the most commonly found hydrants.

HYDRANT SAVER

Model	Part No.	Description
Hydrant Saver	31043	Hydrant Saver, Northern Kit, 8 ft power tube, 1-1/2 ft extension, seat alignment starter wrench, Mueller 5-1/4 in. Socket , plus pins
	31044	Hydrant Saver, Southern Kit, 6-1/2 ft power tube, 1-1/2 ft extension, seat alignment starter wrench, Mueller 5-1/4 in. socket plus pins

HYDRANT SAVER ACCESSORIES

Model	Part No.	Description
Hydrant Saver	30716	Power tube, 8 ft.
	30717	PowerTube, 6-1/2 ft
	30718	Extension, 1-1/2 ft for Power Tube
	30719	Extension, 3 ft for Power Tube
	30720	Extension, 4 ft for Power Tube
	30721	Wrench, seat alignment starter
	30722	Socket, 4-1/4 in. Mueller, M&H, Smith, Columbia
	30723	Socket, 5-1/4 in. Mueller, M&H, Smith, Columbia
	30724	Socket, 5-1/4 in. Waterous
	30725	Socket, 4-1/4 in. Waterous
	30726	Socket, 5-1/4 in. Kennedy
	30727	Socket, 4-1/4 in. Kennedy
	30728	Socket, 5-1/4 in. Clow
	30729	Socket, 4-1/4 in. Clow
	31045	Pin for 5-1/4 in. Sockets

HAMMER DRILL — MODEL HD01

The HD01 is ideal for just about any drilling job whether in rock, concrete, wood or masonry, with 4200 bpm and 800 rpm. The hammer function can be turned off for efficient light drilling in wood and metal. The sturdy, light-weight construction features a D-handle and assist handle making it easier to maneuver than a pistol-grip tool. The HD01 chuck accepts SDS Plus bits and accepts other common accessories with a standard SDS Plus shank. A geared drill chuck and adapter are available for use with common wood auger bits or twist drills. The HD01 has 3 modes of operation--drill mode (without percussion), hammer drill mode (drill with percussion) or hammer only mode (percussion only).

SPECIFICATIONS

Application: Drilling in rock, concrete, wood or masonry.
Capacity: SDS Plus Drill Bits - up to 7/8 inches in concrete
Hyd. Flow: 3-9 gpm / 11-34 lpm
Weight: 8.4 lbs / 4.1 kg
Length: 14.1 in. / 36 cm
Width: 5.6 in. / 14 cm
Connection: 3/8 NPT Male Pipe to -8 SAE port

HAMMER DRILL — MODEL HD45

The HD45 is designed for drilling holes in concrete, rock, or masonry from 3/4 in. / 19 mm to 2 in. / 50 mm in diameter and up to 29 in. / 73.7 cm deep as well as core drilling up to 4 in. / 102 mm in diameter. The HD45 uses a Skil 736 shank, carbide tipped, fluted drill bits and requires no fluid or compressed air to clear holes during operation. The HD45 features a feathering trigger for easy starts, adjustable rotation speed (both forward and reverse), and is furnished with hose whips and flush face quick disconnect couplers.

SPECIFICATIONS

Application: Drilling holes in concrete, rock, or masonry.
Capacity: #736 Skil Hex
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 45 lbs / 20 kg
Length: 22 in. / 57 cm
Width: 14 in. / 35 cm
Connection: 3/8 in. flush face quick disconnect couplers

HAMMER DRILLS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Performance	Capacity	Misc.
HD01	HD01531	8.4 lbs / 4.1 kg	14.1 in. / 36 cm	5.6 in. / 14 cm	3-9 gpm / 11-34 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	800 rpm @ 6 gpm	7/8 in. Dia.	SDS Plus Shk
	HD0153101	8.4 lbs / 4.1 kg	14.1 in. / 36 cm	5.6 in. / 14 cm	3-9 gpm / 11-34 lpm	750-2000 psi / 50-140 bar	2250 psi / 155 bar	800 rpm @ 6 gpm	7/8 in. Dia.	SDS Plus Shk; CE
HD45	HD45110B	45 lbs / 20 kg	22 in. / 57 cm	14 in. / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	300 rpm	#736 Skil Hex	-
	HD451101	45 lbs / 20 kg	22 in. / 57 cm	14 in. / 35 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	300 rpm	#736 Skil Hex	CE

HAMMER DRILL ACCESSORIES

Model	Part No.	Description
HD01	72992	1/2 in. Friction Chuck Adapter
Carbide Bits		
HD01	27807	3/8 x 12 in. OAL
	27814	1/2 x 12 in. OAL
	27826	3/4 x 12 in. OAL
	27827	3/4 x 18 in. OAL
	27832	7/8 x 18 in. OAL

Model	Part No.	Description
HD45	27902	Percussion Core Bit 2-1/2 in. dia. x 6 in. OAL
	27904	Percussion Core Bit 3 in. dia. x 6 in. OAL
	30279	HD45 (Skil 736) Adapter (required)
Carbide Bits		
HD45	02280	3/4 x 24 in.
	02281	1 x 24 in.
	02282	1-1/4 x 24 in.
	02283	2 x 24 in.
	04668	1 x 18 in.
	04896	1-1/4 x 36 in.
	05163	7/8 x 24 in.
	05167	1-1/2 x 24 in.

SINKER DRILL — MODEL SK47

The SK47 is designed for blast hole drilling, leak detection for gas utilities, and dowel hole drilling up to 2 inches / 5 cm in diameter and 10 feet / 3 m deep. The sinker drill uses air flushing to clear holes of debris. The air flow automatically is shut off when the drill is Off. The SK47 is light and easy to handle. It is ideal for applications requiring frequent moves on the job site. It features a feathering trigger for easy starts, adjustable rotation from 0 to 300 rpm, and is furnished with hose whips and flush face quick disconnect couplers.

SPECIFICATIONS

Application: Blast hole drilling, leak detection for gas utilities, dowel drilling.
Capacity: 7/8 x 4-1/4 in. Hex Shank Drill Steel
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 52 lbs / 24 kg
Length: 23 in. / 58 cm
Width: 14 in. / 35 cm
Connection: 3/8 in. flush face quick disconnect couplers

SINKER DRILL — MODEL SK58

The SK58 is designed for blast hole drilling, leak detection for gas utilities, and dowel hole drilling up to 3 inches / 7.6 cm in diameter and 20 feet / 6 m deep. The sinker drill uses air or water flushing (model dependent) to clear holes of debris. The sinker drill features a feathering trigger for easy starts, a direct drive rotation motor adjustable from 0 to 300 rpm, and is furnished with hose whips and flush faced quick disconnect couplers.

SPECIFICATIONS

Application: Heavy duty utility construction, blast hole drilling, leak detection for gas utilities and dowel drilling.
Capacity: 7/8 x 4-1/4 in. or 1 x 4-1/4 in. Hex Shank Steels (see ordering info)
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 67 lbs / 30 kg
Length: 26 in. / 66 cm
Width: 18 in. / 46 cm
Connection: 3/8 in. flush face quick disconnect couplers

SINKER DRILLS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Performance	Capacity	Misc.
SK47	SK47130	52 lbs / 24 kg	23 in. / 58 cm	14 in. / 36 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	10 ft Hole	7/8 in. x 4 1/4in. Hex Shank	Air
SK58	SK58110	67 lbs / 30 kg	26 in. / 66 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	20 ft Hole	1 in. x 4-1/4 in. Hex Shank	Air
	SK58120	67 lbs / 30 kg	26 in. / 66 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	20 ft Hole	1 in. x 4-1/4 in. Hex Shank	Water
	SK58130	67 lbs / 30 kg	26 in. / 66 cm	18 in. / 46 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	20 ft Hole	7/8 in. x 4-1/4 in. Hex Shank	Air

SINKER DRILL ACCESSORIES

Model	Part No.	Description
SK47/SK58	04914	Carbide Rock Bits for use with air (also requires drill steel) - 2 in. dia. H thread
	05174	Drill Steels for use with air - 7/8 x 4-1/4 in. H thread, 24 in. U/C
	05177	Carbide Rock Bits for use with air (also requires drill steel) - 1-3/8 in. dia. H thread CLOSEOUT
	05178	Carbide Rock Bits for use with air (also requires drill steel) - 1-1/2 in. dia. H threadC

Model	Part No.	Description
SK58	04915	Drill Steels for use with water - 1 x 4-1/4 in. H thread, 36 in. U/C
	05170	Drill Steels for use with air - 1 x 4-1/4 in. H thread, 24 in. U/C
	05171	Drill Steels for use with air - 1 x 4-1/4 in. H thread, 48 in. U/C

CORE DRILL — MODEL CD10

The CD10 is well suited for drilling concrete, masonry and asphalt materials. It can be operated freehand or mounted in an optional drill stand. The CD10 maintains speed regardless of drill load improving the life of the bits. The CD10 features a three-speed gearbox which provides a speed selection to match the best speed for the range of drill bits. It comes with a metal carrying case, water connection with control valve, and a drilling aid to assist in starting freehand drilling without drill bit walk, hose whips and flush face quick disconnect couplers.

SPECIFICATIONS

Application: Drilling concrete, masonry and asphalt materials.
Capacity: 5/8 to 6-3/8 in. Dia. Core Bits
Connection: 1-1/4 in. UNC Male, 1/2 in. UNC Female and 1/2-5/8 in. Male Adapter
RPM: 380, 900 & 1800
Hyd. Flow: 5-13 gpm / 22-50 lpm
Weight: 18 lbs / 8.5 kg
Length: 19 in. / 48 cm
Width: 4 in. / 10 cm
Connection: 3/8 in. flush face quick disconnect couplers

CORE DRILL — MODEL CD12

The CD12 is operated from a furnished drill stand for drilling with 5/8 inch diameter up to 14 inch diameter core bits. The drill stand may be adjusted at any angle to drill holes from 45° to perpendicular. The stand can be anchored to the work surface with anchor screws or by using a vacuum pump. The stand has leveling screws and a gear feed that can be set for left or right hand operation. The CD12 has a three-speed gearbox which provides a speed selection to match the best speeds for the range of drill bits. The CD12 is furnished with wrenches for installing or removing drill bits, a water attachment, a detented ON/OFF directional spool, and flush face quick disconnect couplers. A model is available with a spacer block to increase drill diameter capacity to 14 inches.

SPECIFICATIONS

Application: Drilling concrete, masonry and asphalt materials.
Capacity: 5/8 to 14 in. Dia. Core Bits
Connection: 1-1/4 in. UNC Male, 1/2 in. UNC Female and 1/2-5/8 in. Male Adapter
RPM: 500, 1200 & 2400
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 19 lbs / 8.6 kg
Length: 19 in. / 48 cm
Width: 4 in. / 10 cm
Connection: 3/8 in. flush face quick disconnect couplers

CORE DRILLS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Performance	Capacity	Misc.
CD10	CD10100	18 lbs / 8.5 kg	19 in. / 48 cm	4 in. / 10 cm	5-13 gpm / 22-50 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	380, 900 & 1800 rpm	5/8 to 6-3/8 in. Bits	Threaded Spindle
CD12	CD12100	19 lbs / 8.6 kg	19 in. / 48 cm	4 in. / 10 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	500, 1200 & 2400 rpm	5/8 to 12 in. Bits	Threaded Spindle Includes Anchor Stand
	CD12200	19 lbs / 8.6 kg	19 in. / 48 cm	4 in. / 10 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	500, 1200 & 2400 rpm	5/8 to 14 in. Bits	Threaded Spindle Includes Anchor Stand

CORE DRILL ACCESSORIES

Model	Part No.	Description
CD10/CD12	41239	Motor Mount for 41238 Anchor Stand
	41240	Portable Water Tank
	41241	7/8 in. Crown, thin-wall bit
	41242	1 in. Crown, thin-wall bit
	41243	1-1/4 in. Crown, thin-wall bit
	41244	2 in. Segmented, thin-wall bit
	41245	3 in. Segmented, thin-wall bit

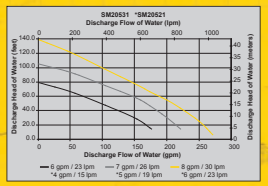
Model	Part No.	Description
CD10/CD12	41246	4 In. Segmented, thin-wall bit
	41247	6 in. Segmented, thin-wall bit
	41778	Carrying Case
	41781	Saddle Clamp
	44957	Vacuum Pump
	62275	CD10 Anchor Stand Integral Motor Mount

SUMP PUMP — MODEL SM20

SPECIFICATIONS

Application: Pumping Liquids
Capacity: 250 gpm / 946 lpm, 2.5 in. NPTF Discharge
Hyd. Flow: 4-9 gpm / 15-34 lpm (see order info)
Weight: 13.7 lbs / 6.3 kg
Length: 7.5 in. / 19 cm
Width: 9.6 in. / 24 cm
Connection: 3/8 in. flush face quick disconnect couplers

The SM20 is one of the lightest and most durable pumps available. Completely submersible and pumping 250 gpm / 946 lpm at a 10-foot head and moving solids up to 5/16 of an inch makes it ideal for vaults and manholes. It features a cast aluminum inlet, steel or urethane impeller, Hyrevz™ motor, and is furnished with flush face quick disconnect couplers.

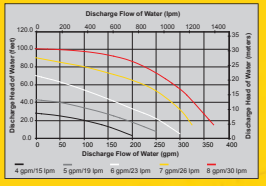

SM20531 *SM20521
Discharge Flow of Water (lpm)
Discharge Head of Water (feet)
Discharge Head of Water (meters)
Discharge Flow of Water (gpm)
6 gpm / 23 lpm
7 gpm / 26 lpm
8 gpm / 30 lpm
*4 gpm / 15 lpm
*5 gpm / 19 lpm
*6 gpm / 23 lpm

SUMP PUMP — MODEL SM21

SPECIFICATIONS

Application: Pumping Liquids.
Capacity: 300 gpm / 1125 lpm, 2.5 in. / 63.5 mm Discharge
Hyd. Flow: 4-9 gpm / 15-34 lpm
Weight: 20 lbs / 11.34 kg
Length: 16 in. / 40.6 cm
Width: 6.25 in. / 15.9 cm
Connection: 3/8 in. flush face quick disconnect couplers

The SM21 is the ideal pump for areas of confined space and small openings. The SM21 pumps up to 300 gpm / 1125 lpm at a 50-foot head. The cast iron impeller is within 3/4 of an inch of the base allowing the pump to remove more liquids than other pumps. The SM21 features a lifting eye, 2.5 in. NPTF discharge, and is furnished with hose whips and flush face quick disconnect couplers.

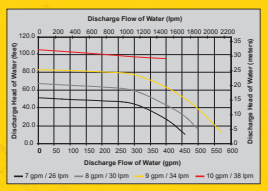


SUMP PUMP — MODEL SM50

SPECIFICATIONS

Application: Pumping Liquids
Capacity: 500 gpm / 1890 lpm, 3 in. Male Camlock Discharge
Hyd. Flow: 7-12 gpm / 26-45 lpm
Weight: 21 lbs / 9.5 kg
Length: 10.5 in. / 26.7 cm
Width: 10 in. / 25.4 cm
Connection: 3/8 in. flush face quick disconnect couplers

The SM50 can pump an impressive 500 gallons per minute / 30,000 gallons per hour. It is completely submersible, can draw water down to a depth of 3.5 inches, and can run dry. It features a cast aluminum inlet, stainless steel impeller, lifting eye, 3 inch Camlock male discharge, and is furnished with flush face quick disconnect couplers.


Discharge Flow of Water (lpm)
Discharge Head of Water (feet)
Discharge Head of Water (meters)
Discharge Flow of Water (gpm)
7 gpm / 26 lpm
8 gpm / 30 lpm
9 gpm / 34 lpm
10 gpm / 38 lpm

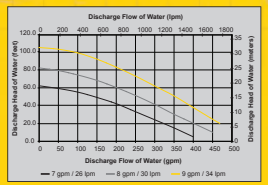
SUBMERSIBLE PUMPS

TRASH PUMP — MODEL TP03

SPECIFICATIONS

Application: Pumping Liquids with Solids up to 3 in.
Capacity: 450 gpm / 1688 lpm, 3 in. NPTF Discharge
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 32 lbs / 14.52 kg
Length: 14 in. / 35.5 cm
Width: 12 in. / 30.4 cm
Connection: 3/8 in. flush face quick disconnect couplers

The TP03 is a submersible trash pump and will pump liquids with concentrations of solids up to 25% by volume. It features a tough urethane bowl and impeller, lifting eye, removable top plate, 3 inch NPTF discharge, and flush face quick disconnect couplers.

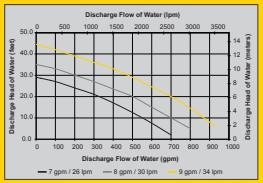

Discharge Flow of Water (lpm)
Discharge Head of Water (feet)
Discharge Head of Water (meters)
Discharge Flow of Water (gpm)
7 gpm / 26 lpm
8 gpm / 30 lpm
9 gpm / 34 lpm

TRASH PUMP — MODEL TP08

SPECIFICATIONS

Application: Pumping liquids with Solids up to 4 in.
Capacity: 800 gpm / 3028 lpm, 4 in. Male Camlock Discharge
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 59 lbs / 26.7 kg
Length: 19 in. / 48.3 cm
Width: 15 in. / 38 cm
Connection: 3/8 in. flush face quick disconnect couplers

The TP08 is a heavy duty submersible trash pump capable of pumping high volumes of water, sand slurries, gravel, sludge and solids up to 4 inches in diameter. It features a steel bowl, cast iron impeller, polyethelene wear plates, carrying handle, removable top plate, 4 inch male Camlock discharge, and flush face quick disconnect couplers.


Discharge Flow of Water (lpm)
Discharge Head of Water (feet)
Discharge Head of Water (meters)
Discharge Flow of Water (gpm)
7 gpm / 26 lpm
8 gpm / 30 lpm
9 gpm / 34 lpm

SUBMERSIBLE PUMPS

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Output	Discharge	Impeller
SM20	SM2043101	18 lbs / 8.16 kg	7.5 in. / 19 cm	9.6 in. / 24 cm	4-9 gpm / 15-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	250 gpm / 946 lpm	2.5 in. / 63.5 mm	Steel
	SM2052101	18 lbs / 8.16 kg	7.5 in. / 19 cm	9.6 in. / 24 cm	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	250 gpm / 946 lpm	2.5 in. / 63.5 mm	Urethane
	SM2053101	18 lbs / 8.16 kg	7.5 in. / 19 cm	9.6 in. / 24 cm	4-9 gpm / 15-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	250 gpm / 946 lpm	2.5 in. / 63.5 mm	Urethane
SM21	SM2151101	25 lbs / 11.34 kg	16 in. / 40.6 cm	6.25 in. / 15.9 cm	4-9 gpm / 15-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	300 gpm / 1125 lpm	2.5 in. / 63.5 mm	Steel
SM50	SM50100	21 lbs / 9.5 kg	10.5 in. / 26.7 cm	10 in. / 25.4 cm	7-12 gpm / 26-45 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	500 gpm / 1890 lpm	3 in. / 75 mm	Steel
TP03	TP0300301	32 lbs / 14.52 kg	14 in. / 35.5 cm	12 in. / 30.4 cm	7-9 gpm / 26-34 lpm	2000 psi / 140 bar	2250 psi / 155 bar	450 gpm / 1688 lpm	3 in. / 75 mm	Urethane
TP08	TP08013	65 lbs / 29.48 kg	19 in. / 48.3 cm	15 in. / 38 cm	7-9 gpm / 26-34 lpm	2000 psi / 140 bar	2250 psi / 155 bar	800 gpm / 3028 lpm	4 in. / 100 mm	Steel

SUBMERSIBLE PUMP ACCESSORIES

Model	Part No.	Description
SM20/SM21/SM50	02183	Fire Hose, 25 in. x 2-1/2 in.
	02317	Fire Nozzle - 1 in. output
	05133	2-1/2 in. Thread Adaptor for Sump Pump to Fire Hose
	05134	50 ft. Fire Hose, 2-1/2 in. dia.
	05135	Spanner Wrench for Pin Lug Coupler
	15248	Adapter, 3 in. female camlock x male fire hose (nh) thread
	59101	Adapter, 2-1/2 in. male NPT x 3 in. male Camlock

Model	Part No.	Description
SM20/SM21/SM50	56761	Discharge Hose
	52720	3 in. Adapter
	02812	Elbow
TP03	52720	Adapter, 3 in. male NPT x 3 in. male Camlock
	56761	Lay-Flat Discharge Hose, 3 in. x 25 ft with Camlock fittings
TP08	65624	Lay-Flat Discharge Hose, 4 in. x 25 ft with Camlock Fittings

VENT FANS & ALTERNATORS

VENT FAN — MODEL VF80

SPECIFICATIONS

Application: Ventilating large spaces such as vaults.
Capacity: 1700 scfm / 802 lsec
Hyd. Flow: 4-12 gpm / 15-45 lpm
Weight: 19 lbs / 8.6 kg
Length: 15 in. / 40 cm
Width: 19 in. / 49 cm
Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Designed for heavy duty service
- Quiet operation
- Centrifugal blower to deliver large volume of air
- High impact plastic case
- Standard 8 inch / 20 cm discharge
- Accepts standard heaters and coolers
- Hyrevz™ motor

VENT FAN

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity
VF80	VF8000	19 lbs / 8.6 kg	15 in. / 40 cm	19 in. / 49 cm	4-12 gpm / 15-45 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1700 scfm / 802 lsec

VENT FAN ACCESSORIES

Model	Part No.	Description
VF80	04430	Flexible Exhaust Hose

ALTERNATOR — MODEL AL35

SPECIFICATIONS

Application: Electric power for lights, small power tools, plastic pipe fusion irons
Capacity: 3500W, 120/240V, 60Hz
Hyd. Flow: 7-9 gpm / 26-34 lpm
Weight: 70 lbs / 32 kg
Length: 19 in. / 48 cm
Width: 9 in. / 23 cm
Connection: 3/8 in. NPT Male Adapter

FEATURES

- Ideal addition to service vehicles for 120/240 volt electric power up to 3500 watts
- Built-in circuit breaker protection - no fuses
- Two 110 volt, 15-amp duplex outlets
- One 240 volt, 30-amp twist lock outlet
- One 240 volt, 20-amp duplex outlet
- Built-in voltmeter
- Brushless design reduces maintenance requirements
- Hyrevz™ motor
- Rubber shock-mount feet

ALTERNATOR

Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Capacity
AL35	AL35095	70 lbs / 32 kg	19 in. / 48 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	3500W, 120 / 240V, 60 Hz

LIGHTER THAN AIR

Powering hydraulic tools doesn't require a large pull-behind power source like an air compressor. The fact is, a power supply about the size of a wheelbarrow, such as our GT18 Power Unit, is more than sufficient to operate any tool shown in this catalog from our biggest breakers to our smallest drills.

Our hydraulic power units use the latest in commercial engine technology from manufacturers such as Briggs & Stratton and Honda. These engines are air cooled, fuel efficient, light weight, rugged, and pack plenty of power to operate our most demanding tools without over-taxing the engine.

Check out the advantages of hydraulic power units over other types of equipment such as air compressors or engine driven tools:

- Versatile - dozens of tools can be operated from these power units
- Air cooled - no winter freezing considerations
- Fuel efficient - 1.3 gallons per hour / 4 liters per hour estimated fuel consumption
- Quiet operation
- Lightweight - 149 to 330 lbs / 68 to 150 kg
- Small size - can fit into small truck or van
- Portable - can be wheeled around jobsite like a wheelbarrow
- Serviceability - can be serviced by small engine dealers

Combine these advantages with our years of experience in developing hydraulic power sources and a full line of powerful construction tools and you have the flexibility to take on any job.

POWER UNIT **MODEL GT09**

Stanley's new generation GT09 portable power pack provides reliable hydraulic power wherever you need it, delivering 20 LPM of hydraulic power / 5 GPM and pressures up to 138 bar / 2000 PSI. Its light-weight and compact stainless-steel frame and fold-away handle simplify transportation and storage. The GT09 conforms to the Hydraulic Tool Manufacturers Association (HTMA) Type 1 recommended circuit specification. The unit is powered by a commercial-grade Honda GX270 engine with automatic throttle control and low engine oil protection and is a perfect solution for Type 1 breaking and light demolition.

SPECIFICATIONS

Application: Hydraulic power supply for Type 1 hydraulic tools
Capacity: 5 gpm / 20 lpm
Pressure: 2000 psi / 138 bar
Weight: 149 lbs / 67.6 kg
Length: 26.25 in. / 66.7 cm
Width: 20.75 in. / 52.7 cm
Height: 21.25 in. / 54 cm
Engine: Honda GX270 4 stroke
Heat Rejection Capacity: 2 HP
Connection: flush face quick disconnect couplers

FEATURES

- Compact stainless-steel tube frame with fold-away handle and lifting eye is light-weight and designed for portability.
- Powered by a reliable commercial-grade Honda GX270 engine with low engine oil protection.
- Automatic Power-on-Demand (POD) throttle control idles down the engine when tools are not in use.
- Conforms to HTMA Type 1 requirements.
- Cooling system regulates hydraulic circuit temperature for maximum performance and reliability.
- Robust hydraulic pump is mounted directly to the engine, providing efficient energy transfer.

POWER UNIT **MODEL GT13**

Stanley's new generation GT13 portable power pack provides reliable hydraulic power wherever you need it, delivering 7 GPM of hydraulic power / 26 LPM and pressures up to 2150 PSI / 148 bar. Its light-weight and compact stainless-steel frame and fold-away handle simplify transportation and storage. The GT13 conforms to the Hydraulic Tool Manufacturers Association (HTMA) Type 2 recommended circuit performance specification. The unit is powered by a commercial-grade Honda GX390 engine with automatic throttle control and low engine oil protection, making it a perfect solution when paired with a variety of Type 2 hydraulic tools.

SPECIFICATIONS

Application: Medium-duty hydraulic power supply for Type 2 hydraulic tools
Capacity: 7 gpm / 26 lpm
Pressure: 2150 psi / 148 bar
Weight: 162 lbs / 73.5 kg
Length: 26.25 in. / 66.7 cm
Width: 20.75 in. / 52.7 cm
Height: 21.25 in. / 54 cm
Engine: Honda GX390 4 stroke
Heat Rejection Capacity: 2 HP
Connection: flush face quick disconnect couplers

FEATURES

- Compact stainless-steel tube frame with fold-away handle and lifting eye is light-weight and designed for portability.
- Powered by a reliable commercial-grade Honda GX390 engine with low engine oil protection.
- Automatic Power-on-Demand (POD) throttle control idles down the engine when tools are not in use.
- Conforms to HTMA Type 2 requirements.
- Cooling system regulates hydraulic circuit temperature for maximum performance and reliability.
- Robust hydraulic pump is mounted directly to the engine, providing efficient energy transfer.

POWER UNIT — MODEL GT18

The GT18 hydraulic power unit is engineered for continuous professional use and is optimized to deliver ideal flows and pressures to both Type 1 and Type 2 hydraulic tools. Its powerful 18 HP Briggs & Stratton engine and best-in-class cooling system deliver the power and heat rejection pros need to keep tools working uninterrupted all day in all types of conditions. The GT18 features a computerized all-electric throttle control system that idles-down the engine when tools aren't running, saving fuel and extending service life. Its feature-rich, dependable operation make the GT18 the workhorse of the industry.

SPECIFICATIONS

Application: Heavy-duty continuous use hydraulic power supply for use with both Type 1 & Type 2 tools
Capacity: 5 or 8 gpm / 20 or 30 lpm
Pressure: 2000 psi / 140 bar
Weight: 330 lbs / 150 kg (Briggs & Stratton model)
Length: 35 in. / 90 cm
Width: 21.5 in. / 54.6 cm
Height: 29 in. / 73.7 cm
Engine: Briggs & Strattion 18 hp Vanguard or Honda 20 hp OHV
Connection: 3/8 in. flush face quick disconnect couplers
Heat Rejection: Up to 5 hp

FEATURES

- Meets HTMA requirements for Type 1 and Type 2 hydraulic tool circuits.
- 5 or 8 gpm / 20 or 30 lpm @ 2000 psi
- Heat rejection capacity exceeding 5 hp.
- Computerized throttle control
- Quartz hour meter
- Direct mounted hydraulic pump
- Air-oil cooler
- Lift and latch handle
- Pneumatic tires
- Maintenance-free battery
- Hydraulic and engine oil filter
- Engine oil level shut-down
- 5 gallon / 20 liters fuel capacity

POWER UNIT — MODEL GT23

The GT23 hydraulic power unit is engineered for continuous professional use and is optimized to deliver ideal flows and pressures to both Type 2 and Type 3 hydraulic tools. Its powerful 23 HP Briggs & Stratton engine and best-in-class cooling system deliver the power and heat rejection pros need to keep tools working uninterrupted all day in all types of conditions. The GT23 features a computerized all-electric throttle control system that idles-down the engine when tools aren't running, saving fuel and extending service life. Its feature-rich, dependable operation make the GT23 the industry choice for high-flow applications.

SPECIFICATIONS

Application: Heavy-duty continuous use hydraulic power supply for both Type 2 & Type 3 tools
Capacity: 8 or 12 gpm / 30 or 45 lpm
Pressure: 2000 psi / 140 bar
Weight: 340 lbs / 154 kg
Length: 35 in. / 90 cm
Width: 21.5 in. / 54.6 cm
Height: 29 in. / 73.7 cm
Engine: Briggs & Strattion 23 hp Vanguard
Connection: 3/8 in. flush face quick disconnect couplers
Heat Rejection: Up to 5 hp

FEATURES

- Meets HTMA requirements for Type 2 and Type 3 hydraulic tool circuits.
- 8 or 12 gpm / 30 or 45 lpm @ 2000 psi
- Heat rejection capacity exceeding 5 hp.
- Computerized throttle control
- Quartz hour meter
- Direct mounted hydraulic pump
- Air-oil cooler
- Lift and latch handle
- Pneumatic tires
- Maintenance-free battery
- Hydraulic and engine oil filter
- Engine oil level shut-down,
- 5 gallon / 20 liters fuel capacity

TRACHORSE — MODEL MHP3

The TracHorse is an all-terrain, self-propelled mobile hydraulic power pack that allows transportation of tools and equipment in most job site environments. Simple operating controls allow for maneuvering in a wide range of applications. The auxiliary hydraulic tool circuit is designed for continuous-duty applications and features the standard high-efficiency cooling found on all Stanley hydraulic power units.

SPECIFICATIONS

Load Capacity: 1000 lbs / 454 kg
Travel Speed: Low Speed - 1.55 mph / 2.5 km/h
High Speed - 2.8 mph / 4.5 km/h
Weight: 1125 lbs / 510 kg
Length: 78 inches / 198 cm
Width: 36 inches / 92 cm
Height: 43 inches / 109 cm
Pressure: 2000 psi / 38 bar
Flow Range: Twin Circuit - 2 @ 5 gpm / 20 lpm or 1 @ 10 gpm / 38 lpm
Connect Size & Type: Flush-Face Couplers
Fuel Capacity: 5 gallons / 20 liters
Engine: Honda 20 hp OHV

FEATURES

- Self-propelled mobile hydraulic tool and equipment carrier that transports tools and equipment in most job-site environments
- Simple operating controls allow for a wide range of applications
- Two speed track drive
- Work lights
- Opening tailgate
- Auxiliary hydraulic tool circuit is designed for continuous-duty applications and features the standard high-efficiency cooling found on all Stanley hydraulic power units
- Climbs 60% grade
- Carries 1,000 lbs / 454 kg

HYDRAVERTER — MODEL HV18

SPECIFICATIONS

Application: Operates Hydraulic Tools using Existing Hydraulic Equipment.
Capacity: 8 gpm / 30 lpm
Pressure: 2000 psi
Weight: 100 lbs / 45 kg
Length: 21 in. / 53 cm
Width: 19 in. / 48 cm
Height: 20 in. / 51 cm
Connection: 3/8 in. flush face quick disconnect couplers

The HV18 is an efficient, clean air-oil cooled portable hydraulic system for operating hydraulic tools from another hydraulic source such as a backhoe, excavator, or skidsteer loader. The HV18 obtains its power from the hydraulics of any backhoe, excavator, skidsteer loader or any other hydraulic equipment capable of supplying up to 35 gpm / 132 lpm at 2000-3000 psi with back-pressures up to 400 psi. The HV18 features cooled hydraulic oil for the hydraulic tools independent of the source oil. It is the perfect solution for operating hydraulic tools using existing hydraulic equipment.

POWER UNITS

Model	Part No.	Weight	Length	Width	Height	Engine	Output Flow	Pressure	Misc.
GT09	GT09H02	149 lbs / 67.6 kg	26.25 in. / 66.7 cm	20.75 in. / 52.7 cm	21.25 in. / 54 cm	Honda GX270	5 gpm / 20 lpm	2000 psi / 140 bar	Auto Throttle
GT13	GT13H02	162 lbs / 73.5 kg	26.25 in. / 66.7 cm	20.75 in. / 52.7 cm	21.25 in. / 54 cm	Honda GX390	7 gpm / 26 lpm	2000 psi / 140 bar	Auto Throttle
GT18	GT18B01	330 lbs / 150 kg	35 in. / 90 cm	23 in. / 59 cm	29 in. / 74 cm	Briggs	8 gpm / 30 lpm	2000 psi / 140 bar	Auto Throttle, CE
	GT18B02	330 lbs / 150 kg	35 in. / 90 cm	23 in. / 59 cm	29 in. / 74 cm	Briggs	8 gpm / 30 lpm	2000 psi / 140 bar	Auto Throttle
GT23	GT23B02	340 lbs / 154 kg	35 in. / 90 cm	23 in. / 59 cm	29 in. / 74 cm	Briggs	12 gpm / 45 lpm	2000 psi / 140 bar	Auto Throttle
TracHorse	MHP32242100	1125 lbs / 510 kg	78 in. / 198 cm	36 in. / 92 cm	43 in. / 109 cm	Honda	2 @ 5 gpm or 1 @ 10 gpm	2000 psi / 140 bar	Twin Circuit Auto Throttle
HV18	HV18300	100 lbs / 45 kg	21 in. / 53 cm	19 in. / 48 cm	20 in. / 51 cm	n/a	7-9 gpm / 26-34 lpm / 16-35 gpm Input	2000 psi / 140 bar	-
	HV18301	100 lbs / 45 kg	21 in. / 53 cm	19 in. / 48 cm	20 in. / 51 cm	n/a	7-9 gpm / 26-34 lpm / 13-25 gpm Input	2000 psi / 140 bar	-

POWER UNIT ACCESSORIES

Model	Part No.	Description
GT18/GT23	13360	Hose Basket Conversion Kit
	33212	Weather Cover
	64940	Male Plug, 12 volt
	64942	12V Receptacle Accessory
	52722	High Altitude Carburator Jet Kit - 8000 ft.
	52721	High Altitude Carburator Jet Kit - 8600 ft.

Model	Part No.	Description
HV18	51290	Hose Kit, 2 hoses, 3/4 in. x 10 ft, w/ ff couplers

HYDRAULIC VALVES & FLOW CONTROLS

Part No.	Description
04722	9 gpm flow control, Brand Hydraulics, C-50-9
72264	In-line Valve, OC/CC

Part No.	Description
67259	Check Valve Assembly
67005	Tool Exchange Valve

HYDRAULIC HOSES

Part No.	Description
01412	Pigtail Hose Whip, 3/8 in. ID x 12 in., 3/8 in. male pipe, -6 SAE O-ring.
01652	Pigtail Hose Whip, 1/2 in. ID x 12 in., 3/8 male pipe, -8 SAE O-ring
05005	10 ft. certified non-conductive, dual oil resistant pig-tails, 3/8 in. NPT male fittings with guard
05120	Clear Vinyl Hose Guard (per ft.)
31848	50 ft. x 1/2 in. ID wire braid, dual hose with couplers
31972	25 ft. x 1/2 in. ID wire braid, dual hose with couplers
44931	Rubber hose, non-conductive, 3/8 in. x 8 ft
47318	Rubber hose, non-conductive, 3/8 in. x 10 ft

Part No.	Description
56797	Rubber Hose Set, non-conductive, 3/8 in. x 10 ft, w/couplers
65897	Rubber Hose Set, non-conductive, 3/8 x 14 ft, w/couplers
58633	Twinned Hose, 1/2 in. x 25 ft, wire braid, w/couplers
58634	Twinned Hose, 1/2 in. x 50 ft, wire braid, w/couplers
58973	Rubber Hose Set, non-conductive, 3/8 in. x 8 ft, w/couplers
65617	Rubber Hose Set, non-conductive, 3/8 in. x 10 ft, -8 male SAE x 3/8 NPTF Male
71170	Non-Conductive, twin-line bonded coiled hose, 3/8 in. NPT

QUICK DISCONNECT COUPLERS

Part No.	Description
03288	3/8 Cap & Plug for all flush face sets
03971	3/8 Parker Flush Face Set (3/8 NPT)
03974	Parker Flush Face Set (1/2 NPT)

Part No.	Description
58718	3/8 Flush Faced Coupler Set, -8 SAE Male
02324	1/2 in. Cap & Plug for all flush face sets

PLUMBING

Part No.	Description
00936	Adapter, 1/2 SAE to 3/8 in. male pipe

Part No.	Description
04192	Hex Nipple, 1/2 in. male pipe

TEST EQUIPMENT

Part No.	Description
02835	Accumulator Tester & Charger
04182	Flow and Pressure Tester

Part No.	Description
29085	Flow & Pressure Tester
31254	Accumulator Charging Kit (handheld tools only)

Hydraulic systems come in many forms—from those found in the simple hydraulic jack to the more sophisticated systems found in earth moving equipment. The system required to operate most hydraulic tools found in this catalog would require 8 gpm / 30 lpm and be capable of providing system pressure up to 2000 psi / 140 bar. This system is referred to as a Type II, as classified by the Hydraulic Tool Manufacturers Association (HTMA). But there are also 3 other classifications. They are discussed below.

HYDRAULIC TOOL MANUFACTURERS' ASSOCIATION (HTMA) REQUIREMENTS

Hydraulic tools fall into 4 classifications, Type I, Type II, Type III, and Type RR as set by HTMA. The system requirements for powering these tools are as follows:

Type I	5	gpm ±10% / 19 lpm
Type II	8	gpm ±10% / 30 lpm
Type III	12	gpm ±10% / 45 lpm
Type RR	10	gpm ±10% / 38 lpm

OPERATING PRESSURE:

Hydraulic systems should be capable of providing the appropriate operating pressure and flow for the system types noted above when measured across the tool connections. Deviation from the nominal flow rates should be no more than plus or minus 10% at a operating pressure of 2000 psi / 138 bar. This is the pressure that the tools will normally operate at which is not to be confused with the relief pressure.

RELIEF PRESSURE:

Hydraulic systems should be capable of limiting the maximum pressure by using either a pressure compensating pump or a relief valve with a non-pressure compensating pump. The system pressure limiting component shall begin to control the maximum pressure at no less than 2150 psi. This is commonly known as the "cracking pressure". The system pressure limiting component shall limit the maximum pressure to 2250 psi for a Type I, Type II, or Type III tool. The system pressure limiting component shall limit the maximum pressure to 2500 psi for a Type RR tool.

RETURN PRESSURE:

The hydraulic systems should generate no more than 250 psi / 17 bar return pressure (back pressure) at the tool when operating at maximum flow for the tool type. System conditions for this pressure are at maximum hydraulic fluid viscosity of 400 SUS (SSU) at minimum operating temperature.

COOLING:

The hydraulic systems should have sufficient heat rejection capacity to limit maximum oil temperature to 140° F / 60° C at the maximum expected ambient temperature. Recommended minimum cooling capacities to dissipate tool-generated heat are:

Type I	3 Horsepower / 2.24 kW
Type II	5 Horsepower / 3.73 kW
Type III	7 Horsepower / 5.22 kW
Type RR	6 Horsepower / 5.22 kW

When determining cooling capacity, the intended duty cycle and the system generated heat must both be considered.

FILTRATION:

Systems should have 25 micron nominal filtration for the hydraulic fluid. Recommended filter element size is at least three times system rated flow to prevent filter bypass under low temperature start-up.

FLUID:

Hydraulic systems should use hydraulic fluid that has a viscosity of 130-225 SSU / 27-42 cst at l00° F / 38° C. Hydraulic fluids of petroleum base with antiwear properties and high viscosity indexes over 140 will meet recommended hydraulic fluid requirements over a wide range of operating temperatures. They should be demulsifying type to allow water to settle out of the fluid.

THE BASIC PRINCIPLE OF HYDRAULICS FOR TOOL OPERATION

The basic principle of hydraulics used for tool operation can be compared with a typical household water system.

The typical rotary car-wash brush tool, that is operated from water through a garden hose, is in actuality a hydraulic tool. Water rushing through the garden hose drives a small motor in the car-wash tool which, in turn, rotates the brush. However, it is not just the rushing water that is driving the motor. There is also pressure associated with the rushing water—about 60 pounds per square inch (psi). Without the pressure, the tool would have no power. Without pressure, any force applied to the tool, such as pushing down on the tool, would stall the tool.

Water rushing through the hose (or the flow of water) is measured in gallons per minute (gpm) and results in the speed of the tool (in the case of the car-wash tool, the speed of the brush). Pressure associated with the water provides power to the tool.

The same principle applies in one of our tools. In a breaker, for example, the flow results in the speed of the tool and the resistance to that flow creates a demand for pressure. If the system has the capacity to deliver the pressure, power is transmitted to the tool to do work.

Hydraulic tools actually use less flow (gpm) than that produced through a garden hose. The pressure, however, is considerably higher. Hydraulic tools require pressures up to 2000 psi / 140 bar but only need 5 to 10 gpm to operate effectively. Of course, a typical HTMA hydraulic system returns fluid to a reservoir for re-use as opposed to the household water system that spills fluid to waste.

OPEN-CENTER AND CLOSED-CENTER SYSTEMS

There are two basic types of hydraulic systems — Open-Center and Closed-Center.

OPEN-CENTER IS CONSTANT FLOW — VARIABLE PRESSURE

When a tool valve is in the OFF position, hydraulic oil flows through the ON/OFF valve ports of the tool and back to the reservoir. The system is constantly flowing oil through the tool valve ports and back to the reservoir at no pressure. When the tool valve is ON, oil circulates through the tool causing the tool to operate, and then returns to the reservoir. Pressure is created when resistance to flow is sensed by the system. This occurs when the tool is put to work. Pressure will increase as the tool needs it up to the relief setting in the hydraulic system.

CLOSED-CENTER IS CONSTANT PRESSURE — VARIABLE FLOW

When a tool valve is in the OFF position, hydraulic oil flow stops at the ON/OFF valve port of the tool. The system will build and hold pressure without returning oil to the reservoir. When the tool valve is ON, oil circulates through the tool causing the tool to operate, and then returns to the reservoir. Pressure tends to be constant in the system. Pressure will increase as the tool needs it up to the settings in the hydraulic system. And if pressures higher than the system setting are demanded by the work, flow will decrease.

FLUID TEMPERATURE

The following information will serve to assist those installing hydraulics in mobile applications for handheld tools. While many hydraulic circuits can run upwards to 200° F / 93° C, temperatures over 110° F / 43° C are uncomfortable to human touch. Our desire is to hold oil temperature to a maximum of 140° F / 43° C.

In almost any hydraulic tool circuit, oil cooling methods will be required except for very short periods of operation or in underwater and extreme cold environments. If you are involved in the design of a hydraulic tool circuit, use the following as guidelines.

BASIC DON'TS FOR COOL OIL CONTROL

1. **DON'T** — Rely on a large reservoir to control oil heating. Large reservoirs, even with good air circulation, do not adequately dissipate heat.
2. **DON'T** — Set relief pressure too low (open-center circuits) for percussion type tools (breakers, hammer drills, etc.). Pressure peaks may run up to 350 PSI over gauge pressure, popping the relief and causing heat as well as low tool performance.
3. **DON'T** — Pump more oil than the tool should use and avoid flow controls if possible. Instead, size the pump for desired flow volume. Gear type flow dividers can be used to reduce flow more efficiently than valves, reducing heat.
4. **DON'T** — Use heavy oils such as 30W or 10W30 engine oils. These will cause resistance in lines and add to backpressure and heat.
5. **DON'T** — Run return oil through control valves or other circuit components, except coolers and return line filters.

DO THE FOLLOWING TO REDUCE HEAT GENERATION

1. Operate pumps at moderate speed — gear pumps usually generate less heat and are less prone to cavitation at speeds of 1,000-2,000 RPM.
2. Use generous line sizes — Especially on pump suction and return from tool to tank.
3. Use oils in 130-225 SSU at l00° F / 38° C range with high viscosity index. (see hydraulic fluid recommendations at the end of this section)

PROVIDE GOOD COOLING FOR HYDRAULIC OIL

1. Use an air-to-oil cooler of maximum size for space available. Use a shrouded, high capacity fan. Many vehicles do not cool well when parked with engine at low speed. Do NOT use a "thermal" viscous-drive fan because these fans do not draw air unless the engine is hot.

FLOW CONTROLS

1. General Notes — To reduce or control flow rate through Stanley Tools, flow control valves are sometimes necessary. All possible effort should be made to avoid use of flow control valves where appropriate pump volume can be used because:
   - **A.** Excess oil volume and subsequent pressure drop generates heat.
   - **B.** When percussion type tools that generate pressure pulses are used, flow controls may oscillate and cause flow changes which reduce tool performance and add increased heating.
2. Flow Control of Open-Center Circuits — Always use a priority type pressure-compensated flow control. This will prevent relief popping and reduce heat build-up. The excess flow should be routed in an unrestricted manner to the reservoir.
3. Flow Control of Closed-Center Circuits — Use a two-port, pressure-compensated flow control. Some of these are very compact, in the range of 1-1/4" diameter by 5" long, and can be attached to the tool pressure pigtail. Do not use priority type controls on closed-center circuits, as this will cause the pump to operate at full volume — further heating the oil.

QUICK DISCONNECTS

1. Only use quick disconnects matching hose diameters. i.e. 1/2 inch port quick disconnect for 1/2 inch inside diameter hose.
2. Use as few quick disconnects as possible and avoid using adapter fittings with quick disconnects. Fittings and quick disconnects, while necessary, create flow restriction which causes heat and reduced tool performance.
3. Always use HTMA recommended quick disconnects that are flush-faced and dripless.

HOSE TYPES

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with Stanley Hydraulic Tools. They are:

- Certified non-conductive - constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. Hose labeled certified non-conductive is the only hose authorized for use near electrical conductors.
- Wire-braided (conductive) - constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. This hose is conductive and must never be used near electrical conductors.
- Fabric-braided (not certified or labeled non-conductive) - constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. This hose is not certified non-conductive and must never be used near electrical conductors.

TOOL TO CIRCUIT HOSE RECOMMENDATIONS

Oil Flow		Each Hose Length		Inside Diameter		USE	Wire Braid Hose Spec	Working Pressure		Fiber Braid Hose Spec	Operating Pressure	
GPM	LPM	FEET	METERS	INCH	MM			PSI	BAR		PSI	BAR
5-8	19-30	up to 50	up to 15	1/2	13	Both	SAE 100R17-8	3000	230	SAE 100R7-8	2000	140
5-8	19-30	51-100	15-30	5/8	16	Both	SAE 100R17-10	3000	230	SAE 100R8-10	2750	190
5-8	19-30	100-300	30-90	5/8	16	Pressure	SAE 100R2-10	2750	190	SAE 100R8-10	2750	190
				3/4	19	Return	SAE 100R1-12	1250	86	SAE 100R7-12	1250	86

NOTE: SAE 100R16 may be used in place of SAE 100R2

FLUIDS FOR MOBILE HYDRAULIC TOOL CIRCUITS

The specification listed here will provide good all season operation if your circuit is of proper design and normal maintenance is performed. (Periodic filter change, draining of condensate, etc.)

SPECIFICATIONS

Item	U.S.A.	Metric
Viscosity (Fluid Thickness)	50° F 450 SSU Max.	10° C 95 Centistokes Max.
Viscosity (Fluid Thickness)	100° F 130-225 SSU	38° C 27-42 Centistokes
Viscosity (Fluid Thickness)	140° F 85 SSE Min.	60° C 16.5 Centistokes Min.
Pour Point (Min.for cold startup)	-10° F	23° C
Viscosity Index	(ASTM D2220)	140 Minimum
Demulsibility	(ASTM D1401)	30 Minutes Max.
Flash Point	(ASTM D92)	340° F Min.
Rust Inhibition	(ASTM D665 A&B)	Pass
Oxidation	(ASTM D943)	1000 Hours Min.
Pump Wear Test	(ASTM D2882)	60 mg Max.
Biodegradability	CEC-L-33-A94	>60%

RECOMMENDED FLUIDS

The fluids listed here work well over a wide temperature range at start-up, allow moisture to settle out, and resist biological growth likely in cool-operating hydraulic circuits. These fluids are recommended by Stanley Hydraulic Tools for use in our tools. Other fluids that meet or exceed the specifications of these fluids may also be used. Biodegradable fluids listed are compatible with all tool seals and hoses.

RECOMMENDED FLUIDS

Brand	Biodegradable	Description
AMS-Oil	No	Hydraulic Fluid MN 150 SSU,100 V.I.
Chevron	No	AW-MV-32
Exxon	No	Univis J-26
Mobil	No	D.T.E.13
Gulf	No	Harmony AW-HVI-1 50-32
Shell	No	Lo-Hydraul 32 or Tellus T-32
Sun	No	Sunvis 805 MG
Texaco	No	Rando HD-AZ
Union	No	Unax AW-WR-32
Mobil	Yes	EAL 224H
Texaco	Yes	BioStar 32
Terresolve	Yes	EnviroLogic 132
Shell	Yes	Naturelle HF-E-32
Pennzoil	Yes	Pennzsafe SL200

HYDRAULIC SYSTEM SPECIFICATIONS SUITABLE FOR POWERING HTMA TYPE I HYDRAULIC TOOLS

GENERAL SPECIFICATIONS

The following specifications are for a hydraulic system which will deliver the performance of an HTMA Type 1 system. The HTMA Type 1 system has a flow requirement of 5 gpm, plus or minus 10%.

The hydraulic system shall be an open-center type system and deliver the design flow rate over a pressure load range of 1000 to 2000 psi. Alternatively, the system may be a closed-center type having the same hydraulic performance.

The system pressure limiting component shall begin to control at a pressure no less than 2150 psi / 148 bar and shall limit the maximum pressure to no more than 2250 psi / 155 bar. This component may be a relief valve, used with a non-pressure compensating pump system, or the pressure control used with a pressure-compensating pump system.

The flow loss in the return side of the system must be low enough so that the return pressure (back pressure), when measured at the tool end of the tool hose is not more than 250 psi / 17 bar. This measurement is to be made with the system at minimum operating temperature and the hydraulic oil viscosity no higher than 400 SSU / 86 cst. For ISO Grade 32 hydraulic oil, the system temperature will be approximately 50° F / 10° C.

The hydraulic system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140° F / 60° C at the maximum expected ambient temperature. The minimum cooling capacity to dissipate tool-generated heat is 3 hp / 7,635 BTU/hr. This cooling capacity may be modified taking into consideration intended tool operation duty cycle and system generated heat.

The hydraulic system shall have a return line filter rated for 25 micron nominal filtration. The filter shall have a flow capacity of at least 15 gpm.

The hydraulic system shall use a fluid which has a viscosity of 150-225 SSU / 32-50 cst at 100° F / 38° C. Hydraulic fluids of petroleum base with anti-wear properties and high viscosity indexes over 140 will meet fluid requirements over an wide range of operating temperatures.

DETAIL SPECIFICATIONS

The hydraulic reservoir shall be of a metal construction with a fluid holding capacity of 8 to 13 gallons. The reservoir shall include a vented filler/breather with a filter basket. It shall have a 140-mesh or 125 micron pump suction strainer located near the bottom and a rigid internal baffle to prevent direct cross flow from return to suction. The fluid return shall be below the lowest fluid level in order to prevent air entrainment. The reservoir shall include a fluid level indicator to show fluid level from the minimum requiring fill to the maximum showing full. It shall include a drain, low near the bottom, to provide for draining settled-out water or complete emptying of the reservoir. There shall be provision for access to the inside for servicing the suction strainer and cleaning the reservoir.

The fluid line from the reservoir to the pump suction port shall have an inside diameter of 1.25 inches / 32 mm.

The pump shall be sized to deliver the system design flow at a shaft speed determined by the prime mover speed and any speed reduction between it and the pump. For vehicles with automatic transmissions, the engine speed should be between 1700 and 2000 rpm. For example, if the power takeoff speed ratio is .75, then the pump speed will be 1275 to 1500 rpm. The pump displacement will be between 0.770 and 0.906 cubic inches per rev. For a fixed-displacement pump, these displacements will be that of the pump. For variable-displacement pumps, these displacements with be the pump displacement setting while operating the hydraulic tool system. The pump shall have a maximum pressure rating of at least 3000 psi.

The pressure line from the pump outlet to the directional valve shall have an inside diameter of 0.75 inches / 19 mm. The working pressure of the line shall be at least 2500 psi.

If no bi-directional tools will be used, the directional control valve shall be ¾-inch size two-position two-port or three-port diverter valve. Only the pressure side flow will go through the valve. For an open-center system, in the OFF position the valve will bypass flow to the system return; in the ON position the valve will block the bypass to the system return. For a closed-center system, in the OFF position the valve will block the pump port and connect the tool to the return; in the ON position the valve will connect the pump to the tool. It must be rated for working pressure of at least 2500 psi.

If bi-directional tools will be used, the directional control valve shall be a ¾-inch size three-position, four-port valve. The valve spool shall be a motor spool. For an open-center system, all ports must be connected to the tank port in the neutral position. For a closed-center system, the tool ports must be connected together. It must be rated for working pressure of at least 2500 psi.

The relief valve may be a separate component or integral to the directional control valve. It may be either direct operating or pilot operated. It shall be set with the cracking pressure at 2150 psi / 148 bar. The maximum full-flow bypass pressure shall not be more than 2250 psi / 155 bar.

The air-to-oil cooler must be sized and placed to have the required heat rejection capacity. If the vehicle engine does not have a temperature-controlled fan, the oil cooler may be mounted in front of the vehicle radiator. The cooler will be the largest that will cover the radiator and must be at least 1 ½ inches thick. The oil cooler must have low enough air flow resistance so as not to seriously reduce the vehicle cooling capacity. If the vehicle has a temperature-controlled fan, then an air-to-oil cooler with fan(s) must be selected. This cooler must be installed where it will have unimpeded air flow. The ports in the cooler shall be at least 1-inch size. Integral to the cooler or separately installed with the cooler shall be a bypass check valve or thermal diverter valve to allow fluid to bypass the cooler at low temperatures and high viscosities until the fluid temperature reaches working temperatures. If a thermal diverter valve is used, it should have a temperature setting between 85° and 95° F / 29° and 35° C. If a separately-fanned cooler is selected, it shall have a thermal switch to turn on the fan(s) when oil flows through the cooler.

The system return lines shall have an inside diameter of .75 or 1.00 inch. The lines shall have a working pressure rating of at least 250 psi.

The hydraulic system shall have HTMA flush-face quick-acting couplers for connecting tools to the system. The coupler nose shall be on the pressure port and the coupler body shall be on the return port. These will be located according to the requirements of the end-user.

All connections shall be assembled and sealed to assure there will be no leaks. All components shall be suitable for mobile hydraulic systems and have flow capacity and working pressures which meet the requirements of the system. All lines shall be installed and restrained to prevent contact with hot engine components and prevent fatigue failure due to vibration or abrasion. The system shall be flushed clean and filled with clean hydraulic fluid.

The system will be accepted after verification by the customer that the system performance meets specifications.

HYDRAULIC SYSTEM SPECIFICATIONS SUITABLE FOR POWERING HTMA TYPE II HYDRAULIC TOOLS

GENERAL SPECIFICATIONS

The following specifications are for a hydraulic system which will deliver the performance of an HTMA Type 2 system. The HTMA Type 2 system has a flow requirement of 8 gpm, plus or minus 10%.

The hydraulic system shall be an open-center type system and deliver the design flow rate over a pressure load range of 1000 to 2000 psi. Alternatively, the system may be a closed-center type having the same hydraulic performance.

The system pressure limiting component shall begin to control at a pressure no less than 2150 psi / 148 bar and shall limit the maximum pressure to no more than 2250 psi / 155 bar. This component may be a relief valve, used with a non-pressure compensating pump system, or the pressure control used with a pressure-compensating pump system.

The flow loss in the return side of the system must be low enough so that the return pressure (back pressure), when measured at the tool end of the tool hose is not more than 250 psi. This measurement is to be made with the system at minimum operating temperature and the hydraulic oil viscosity no higher than 400 SSU / 86 cst. For ISO Grade 32 hydraulic oil, the system temperature will be approximately 50° F / 10° C.

The hydraulic system shall have sufficient heat rejection capacity to limit the maximum oil temperature to 140° F / 60° C at the maximum expected ambient temperature. The minimum cooling capacity to dissipate tool-generated heat is 5 hp / 12,725 BTU/hr. This cooling capacity may be modified taking into consideration intended tool operation duty cycle and system generated heat.

The hydraulic system shall have a return line filter rated for 25 micron nominal filtration. The filter shall have a flow capacity of at least 25 gpm.

The hydraulic system shall use a fluid which has a viscosity of 150-225 SSU / 32-50 cst at 100° F / 38° C. Hydraulic fluids of petroleum base with anti-wear properties and high viscosity indexes over 140 will meet fluid requirements over an wide range of operating temperatures.

DETAIL SPECIFICATIONS

The hydraulic reservoir shall be of a metal construction with a fluid holding capacity of 12 to 20 gallons. The reservoir shall include a vented filler/breather with a filter basket. It shall have a 140-mesh or 125 micron pump suction strainer located near the bottom and a rigid internal baffle to prevent direct cross flow from return to suction. The fluid return shall be below the lowest fluid level in order to prevent air entrainment. The reservoir shall include a fluid level indicator to show fluid level from the minimum requiring fill to the maximum showing full. It shall include a drain, low near the bottom, to provide for draining settled-out water or complete emptying of the reservoir. There shall be provision for access to the inside for servicing the suction strainer and cleaning the reservoir.

The fluid line from the reservoir to the pump suction port shall have an inside diameter of 1.25 inches / 32 mm.

The pump shall be sized to deliver the system design flow at a shaft speed determined by the prime mover speed and any speed reduction between it and the pump. For vehicles with automatic transmissions, the engine speed should be between 1700 and 2000 rpm. For example, if the power takeoff speed ratio is .75, then the pump speed will be 1275 to 1500 rpm. The pump displacement will be between 1.449 and 1.232 cubic inches per rev. For a fixed-displacement pump, these displacements will be that of the pump. For variable-displacement pumps, these displacements with be the pump displacement setting while operating the hydraulic tool system. The pump shall have a maximum pressure rating of at least 3000 psi.

The pressure line from the pump outlet to the directional valve shall have an inside diameter of 0.75 inches / 19 mm. The working pressure of the line shall be at least 2500 psi.

If no bi-directional tools will be used, the directional control valve shall be ¾-inch size two-position two-port or three-port diverter valve. Only the pressure side flow will go through the valve. For an open-center system, in the OFF position the valve will bypass flow to the system return; in the ON position the valve will block the bypass to the system return. For a closed-center system, in the OFF position the valve will block the pump port and connect the tool to the return; in the ON position the valve will connect the pump to the tool. It must be rated for working pressure of at least 2500 psi.

If bi-directional tools will be used, the directional control valve shall be a ¾-inch size three-position, four-port valve. The valve spool shall be a motor spool. For an open-center system, all ports must be connected to the tank port in the neutral position. For a closed-center system, the tool ports must be connected together. It must be rated for working pressure of at least 2500 psi / 172 bar.

The relief valve may be a separate component or integral to the directional control valve. It may be either direct operating or pilot operated. It shall be set with the cracking pressure at 2150 psi / 148 bar. The maximum full-flow bypass pressure shall not be more than 2250 psi / 155 bar.

The air-to-oil cooler must be sized and placed to have the required heat rejection capacity. If the vehicle engine does not have a temperature-controlled fan, the oil cooler may be mounted in front of the vehicle radiator. The cooler will be the largest that will cover the radiator and must be at least 1 ½ inches thick. The oil cooler must have low enough air flow resistance so as not to seriously reduce the vehicle cooling capacity. If the vehicle has a temperature-controlled fan, then an air-to-oil cooler with fan(s) must be selected. This cooler must be installed where it will have unimpeded air flow. The ports in the cooler shall be at least 1-inch size. Integral to the cooler or separately installed with the cooler shall be a bypass check valve or thermal diverter valve to allow fluid to bypass the cooler at low temperatures and high viscosities until the fluid temperature reaches working temperatures. If a thermal diverter valve is used, it should have a temperature setting between 80° and 90° F / 26° and 32° C. If a separately-fanned cooler is selected, it shall have a thermal switch to turn on the fan(s) when oil flows through the cooler.

The system return lines shall have an inside diameter of .75 or 1.00 inch. The lines shall have a working pressure rating of at least 250 psi.

The hydraulic system shall have HTMA flush-face quick-acting couplers for connecting tools to the system. The coupler nose shall be on the pressure port and the coupler body shall be on the return port. These will be located according to the requirements of the end-user.

All connections shall be assembled and sealed to assure there will be no leaks. All components shall be suitable for mobile hydraulic systems and have flow capacity and working pressures which meet the requirements of the system. All lines shall be installed and restrained to prevent contact with hot engine components and prevent fatigue failure due to vibration or abrasion. The system shall be flushed clean and filled with clean hydraulic fluid.

The system will be accepted after verification by the customer that the system performance meets specifications.

TESTING A HYDRAULIC SYSTEM FOR COMPARISON TO HTMA RECOMMENDATIONS

The objective of this test is to determine how your hydraulic system performance compares with HTMA (Hydraulic Tool Manufacturers Association) recommended hydraulic system performance.

To perform these tests, you will need a flow and pressure tester such as our P/N 04182 or P/N 29085 shown below and two thermometers (the P/N 29085 has a built-in thermometer).

Stanley P/N 04182

Stanley P/N 29085

HTMA RECOMMENDATIONS FOR A HYDRAULIC SYSTEM OPERATING TYPE I HYDRAULIC TOOLS:

- 5 gpm ± 10% / .5 gpm at 2000 psi measured at the tool inlet.
- 200 psi or less return pressure at 5.5 gpm—pressure measured at the tool outlet.
- Limit system temperature to 140° F on the hottest expected day. Choosing 100° F as the hottest expected day's temperature, the hydraulic system must maintain a 40 degree temperature difference, air to oil. For example, if the ambient air temperature is 100° F, then the oil temperature should not exceed 140° F.
- To simulate tool-generated heat during operation, HTMA recommends using 3 hp, minimum. A reading of 1030 psi minimum at the flow and pressure tester will achieve the recommended 3 hp, minimum.

HTMA RECOMMENDATIONS FOR A HYDRAULIC SYSTEM OPERATING TYPE II HYDRAULIC TOOLS:

- 8 gpm ± 10% / .8 gpm at 2000 psi measured at the tool inlet.
- 200 psi or less return pressure at 8.8 gpm, pressure measured at the tool outlet.
- Limit system temperature to 140° F on the hottest expected day. Choosing 100° F as the hottest expected day's temperature, the hydraulic system must maintain a 40 degree temperature difference, air to oil. For example, if the ambient air temperature is 100° F, then the oil temperature should not exceed 140° F.
- To simulate tool-generated heat during operation, HTMA recommends using 5 hp, minimum. A reading of 1100 psi minimum at 8 gpm at the flow and pressure tester will achieve the recommended 5 hp, minimum.

Select an open site where the air is relatively calm. Place one thermometer in the oil reservoir to measure the temperature of the circulating oil (surface mounted tank thermometers do not adequately measure the temperature of the bulk system oil). Hang the other thermometer in still air to measure the ambient air temperature.

Connect the flow and pressure tester to the tool hoses. Fully open the load valve on the tester.

Start up the system (with tool circuit control valve OFF) and warm the hydraulic fluid (if necessary) to a minimum of 50° F.

LOW TEMPERATURE AND MAXIMUM VISCOSITY BACK PRESSURE TEST

Turn ON the tool circuit control valve. Record oil temperature, ambient air temperature, flow rate, and back pressure.

Air: _____ ° F

Oil: _____ ° F

Flow rate: _____ gpm

Back pressure: _____ psi

HYDRAULIC SYSTEM'S CAPACITY TO DELIVER FLOW AGAINST 2000 PSI TEST

Close the load valve to where the pressure gage reads 2000 psi. Record flow rate, back pressure, and oil temperature.

Flow rate: _____ gpm
Back pressure: _____ psi
Oil: _____ ° F

SYSTEM CAPACITY TO CONTROL TEMPERATURE TEST

Raise the system temperature to 140° F by adjusting the pressure using the load valve on the flow and pressure tester. If it takes more than 1900 psi to get the system temperature to 140° F, adjust the pressure to stabilize the system temperature at some lower temperature, e.g. 120° F.

When the system temperature has remained constant for about 15 minutes, record the flow rate, pressure, back pressure, oil temperature, and air temperature.

Flow rate: _____ gpm
Pressure: _____ psi
Back pressure: _____ psi
Air: _____ ° F
Oil: _____ ° F

CALCULATE THE TOOL LOAD HP COOLING CAPACITY FOR AN EFFECTIVE 40 DEGREE TEMPERATURE DIFFERENCE, AIR TO OIL USING THE FOLLOWING FORMULA.

$$\frac{(\text{Pressure} - \text{Back pressure}) \times \text{gpm}}{43 \times (\text{Oil temperature} - \text{Air Temperature})} = \text{hp (horse power)}$$

Example:

Flow rate:	5	gpm
Pressure:	1500	psi
Back pressure:	100	psi
Air:	70	° F
Oil:	120	° F

$$\frac{(1500 - 100) \times 5}{43 \times (120 - 70)} = 3.3 \text{ hp at } 40° \text{ F temperature difference}$$

MORE POWER TO YOU

Stanley Hydraulic Tools makes a variety of handheld hydraulic tools for electric utilities, underwater applications, and other industries, as well as mounted breakers, compactors, grapples and shears, providing the broadest lineup of hydraulic-powered tools in the industry. Visit www.stanley-hydraulic-tools.com for a complete listing.

MOUNTED BREAKERS

Our mounted breakers feature industry leading design innovations including a patented valving system which provides unmatched performance and durability, a unique, direct-acting nitrogen chamber that results in increased impact force with the simplicity of only two moving parts and a rugged housing and powercell designed to excel in the most demanding applications. Our mounted breakers are ideal for construction, demolition and quarry applications and are backed by one of the most trusted names in the industry.

CYCLONE DROP HAMMER

The Cyclone Drop Hammer is hands down, pound for pound, the most productive tool for breaking concrete flatwork. It is extremely simple to install, use and maintain. The Cyclone can be mounted to skid steers, small excavators and rubber tire backhoe loaders. Since it sits directly on top of the material using no down pressure, the energy produced by the hammer's drop is concentrated on the material itself, causing very little shock energy to go back into the machine. This significantly reduces fatigue to the machine and the operator.

MOUNTED COMPACTORS

Stanley Mounted Compactors are available to match applications requiring 2,500 to 22,000 pounds of vibratory force. The complete line includes models to fit virtually any base machine from skid steers and mini-excavators to crawler excavators. The rugged construction of Stanley Mounted Compactors features direct drive, heavy duty gear motor and patented baseplate design with outboard rubber shock mounts to ensure longer service life.

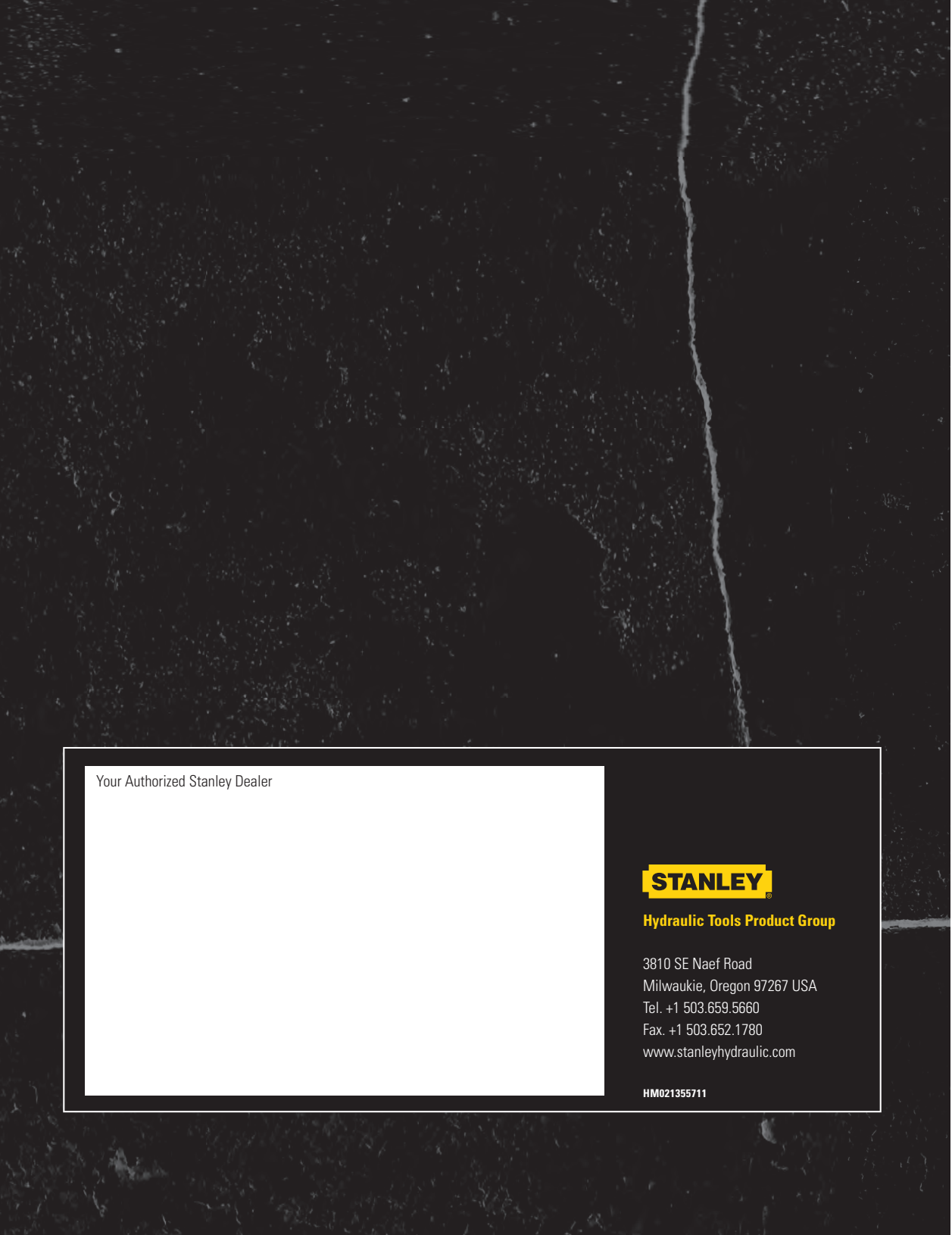
LABOUNTY ATTACHMENTS

Stanley's LaBounty shears, grapples, & pulverizers are coveted fixtures at construction, demolition, and scrap recycling job sites throughout the world. Our attachments--some as old as the company itself--have stood atop the industry for more than 30 years and are recognized as the utmost in quality, durability, and lasting performance.

HANDHELD HYDRAULIC TOOLS

Hydraulic Handheld Tools from Stanley increase job versatility and get the job done quickly, effectively and quietly. Hydraulic power is the most efficient power of any traditional power source with the highest power-to-weight ratio of any power tool. Our handheld line of tools can be powered from a variety of hydraulic power sources such as backhoes, aerial lifts, dump trucks and Stanley Hydraulic Power Units, including our new mobile power unit – the TracHorse.

For more information on Stanley Hydraulic Tools, please call our Milwaukie, OR facility at: **800-972-2647** or visit our web site at: **www.stanleyhydraulic.com**



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Hydraulic Tools Product Group

3810 SE Naef Road
Milwaukie, Oregon 97267 USA
Tel. +1 503.659.5660
Fax. +1 503.652.1780
www.stanleyhydraulic.com

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